THENATIONAL GEOGRAPHIC MAGAZINE

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Map of Asia and Adjacent Areas

Long Island Outgrows the Country

With 47 Illustrations and Map 34 in Natural Colors

HOWELL WALKER B. ANTHONY STEWART

Yankee Roams the Orient

With 45 Illustrations and Map 30 in Matural Colors

IRVING and ELECTA JOHNSON

Africa's Uncaged Elephants

14 Illustrations

QUENTIN KEYNES

The Caves of the Thousand Buddhas

With 36 Illustrations 22 in Natural Colors

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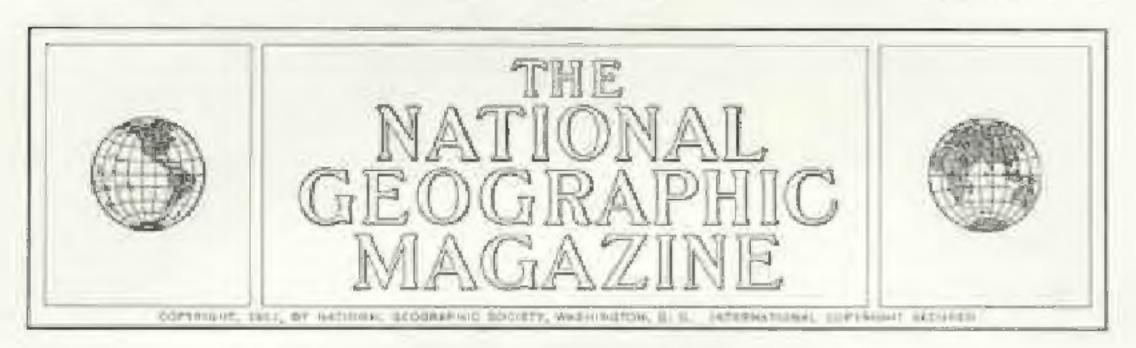
New National Geographic Map

Shows Changes in Asia and Europe

Sixty-four Pages of Illustrations in Color

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Long Island Outgrows the Country

By HOWELL WALKER

With Illustrations by National Geographic Photographer B. Anthony Stewart

SOME PEOPLE still think of Long Island as a sandy strip of shore line off New York with a lighthouse on one end and Brooklyn on the other."

So one of the island's five million residents recently told me. Yet this slim stretch of land under the very nose of the country's greatest metropolis is one of the fastest-growing regions of the United States. In the last few years the population of its so-called rural counties has increased more rapidly than New York City's or the Nation's as a whole.

Here on Long Island multiple housing developments mushroom. Along with them sprout streamlined factories and modern shopping centers, transport and recreational facilities. Much of the activity burgeons where it seems only yesterday myriad acres of potatoes grew.

Between Long Island and New York's towers, hundreds of trainloads of white-collar commuters daily ebb and flow. Increasing thousands call the island home, and many now carn a living in its hundreds of new industries.

631 Trains Daily Carry Suburbanites

Not quite as flat as a flounder, Long Island on a map resembles a big fish nosing into New York Bay. Its forked this reaches 120 miles out to sea; its highest hill rises only 410 feet above the surrounding waters. Long Island Sound washes the north shore and separates it from Connecticut's coast. Against the south shore swell the restless tides of the Atlantic (map, pages 282-3).

Although smaller than Delaware, Long Island has about 16 times as many people as that State. Of the island's four counties,

urban Kings and Queens in the west belong to New York City; to the east lie Nassau and Suffolk, with numerous little towns and splendld estates, together with fishing villages, truck farms, growing suburbs, and expanding industries.

Fifteen hundred miles of boulevards, high-ways, and State parkways cover the island. Operating over 420 miles of lines, the Long Island Rail Road reaches most major points, runs 631 trains daily, and hauls about 92 million passengers a year, thus making it the leading carrier of suburbanites in the United States.

In addition to subway, elevated, trolley, and bus systems, six major airports serve both the island and the New York metropolitan area.

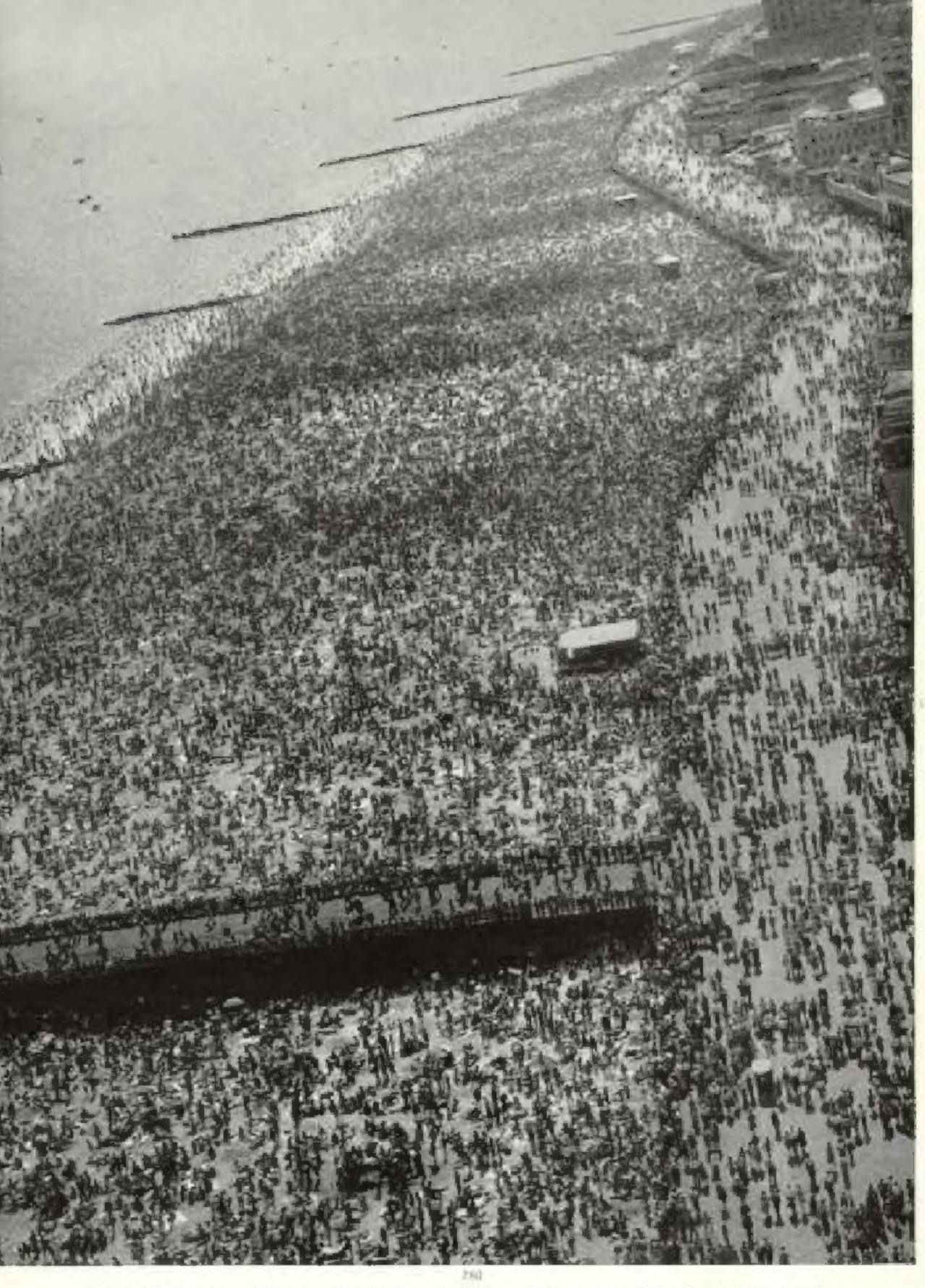
Eight Roads over or under East River

To reach Long Island from Manhattan by automobile, I could have used any of six bridges over the East River or two tunnels which plunge beneath it. The newest—shiny-tiled Brooklyn-Battery Tunnel—opened to traffic in late May of last year (page 288).

I chose the Triborough Bridge, swung onto Grand Central Parkway, and breezed eastward through Queens into Nassau County.

From the congested west end, four-lane parkways stream out like broad ribbons in the wind. Each year they carry more traffic farther eastward as new home and business construction pushes ahead. Cross-Island highways link the axial arteries.

Engineers planning these modern highways sometimes; turn back a century or two to ladian trails; ted men made more topographical sense than their first white successors in laying out lines of communication!



1,300,000 Bathers Obscure Coney Island Sands. Hot-weather Worries Melt Like Ice Subways, automobiles, and excursion steamers take 70,000,000 pleasure seekers annually to New York's playground by the sea. Stretching along three tilles of boardwalk, the resort offers 900 amusements.

A dozen or more small Algonquian tribes were scattered the length of the island. In 1609 they accepted the first foreign intrusion without much fuss; Henry Hudson with a score of men landed, tradition says, on what became known as Coney Island. But Hudson, the Englishman sailing for the Dutch East India Company, didn't linger; he had set his heart on finding a short passage to India.*

For the next 25 years the Indians had Long Island to themselves. Then came Dutch, closely followed by English settlers. European intervention thinned out the aborigines. Smallpox spread with fatal results. Fifty years after the first settlers arrived, histories tell us, a third of the native population had died; by 1761 red men had virtually vanished from large parts of the Island.

Today only one real reminder of the Indian survives: his place names. Villages, towns, coves, bays, hills, roads, and streams still

carry them.

Seventeenth-century colonization continued. Around their original holding at Breackelen, now Brooklyn. Dutch settled in the west: English mostly in the east. International jealousy over land and its government kept the two colonies in a constant squabble. Finally, in 1674, England won complete control of the island.

During the next 100 years, the island enjoyed relative peace and the bonicy task of domesticating itself. Farms expanded; villages sprang up; small industries increased; toads took shape; news traveled faster.

The American Revolution split the island folk. The Battle of Long Island, initial engagement in the campaign of 1776, took place at Brooklyn. Well-trained troops led by England's General Howe forced outnumbered Americans under George Washington to retreat across the East River. And the British remained for the duration of the war.

Link with the World-and the Future

Now look at Long Island in 1951, but quickly, before what you see today becomes obsolete tomorrow.

"Only permanent thing around here is the temporary aspect of it all," said an executive of Long Island's newest airport. "And the only monotonous thing about it is the con-

stant change,"

To illustrate, he spent part of a morning and a whole afternoon showing me one of the world's largest commercial air terminals. Although far from finished, New York International Airport in southern Queens has already begun to steal La Guardia's thunder as New York's busiest flying field (pages 290, 291).

International Airport, formerly known as Idiewild, covers a reclaimed area equal to all of Manhattan from 42d Street to the Battery, or about 4,900 acres. We saw 10 miles of runways and three gigantic hangars, each with a floor the size of a football field. Of the many administrative buildings now there, most will be replaced by more adequate, up-to-date permanent structures.

By 1960 this airport plans to handle about 700 plane movements a day. And the vast terminal area will become a city within a city, having everything that designation implies.

Levittown Leaps onto the Map

From the air International Airport looks even more impressive; but nothing I saw during a flight over the whole island impressed me as much as Levittown—an outstanding example of mass home production.

Up from the potato fields of a few years ago rises "miral" Long Island's largest community, new home of 50,000 persons. Here, in the heart of Nassau County, stand 14,000 houses built by Levitt and Sons, Inc. Here is the epitome of suburban growth—more than a new place name on the map (page 294).

Picture a parking lot a hundred times bigger than the biggest you've ever seen, and fill it with identical small cars. That's vaguely what Levittown from the air looked

like to me.

Down on the ground a friend guided me through and around endless regiments of homes, as uniform and numerous as tents of a vast army. We passed six swimming pools, playgrounds, school, and shopping centers. With its intensive landscaping program, "Levittown is destined to be one of the garden spots of America," says a sign there.

Except for exterior color, one house looks like the next; but each is home to a family. In front of most we found baby carriages and tricycles: children's clothes lung from back-

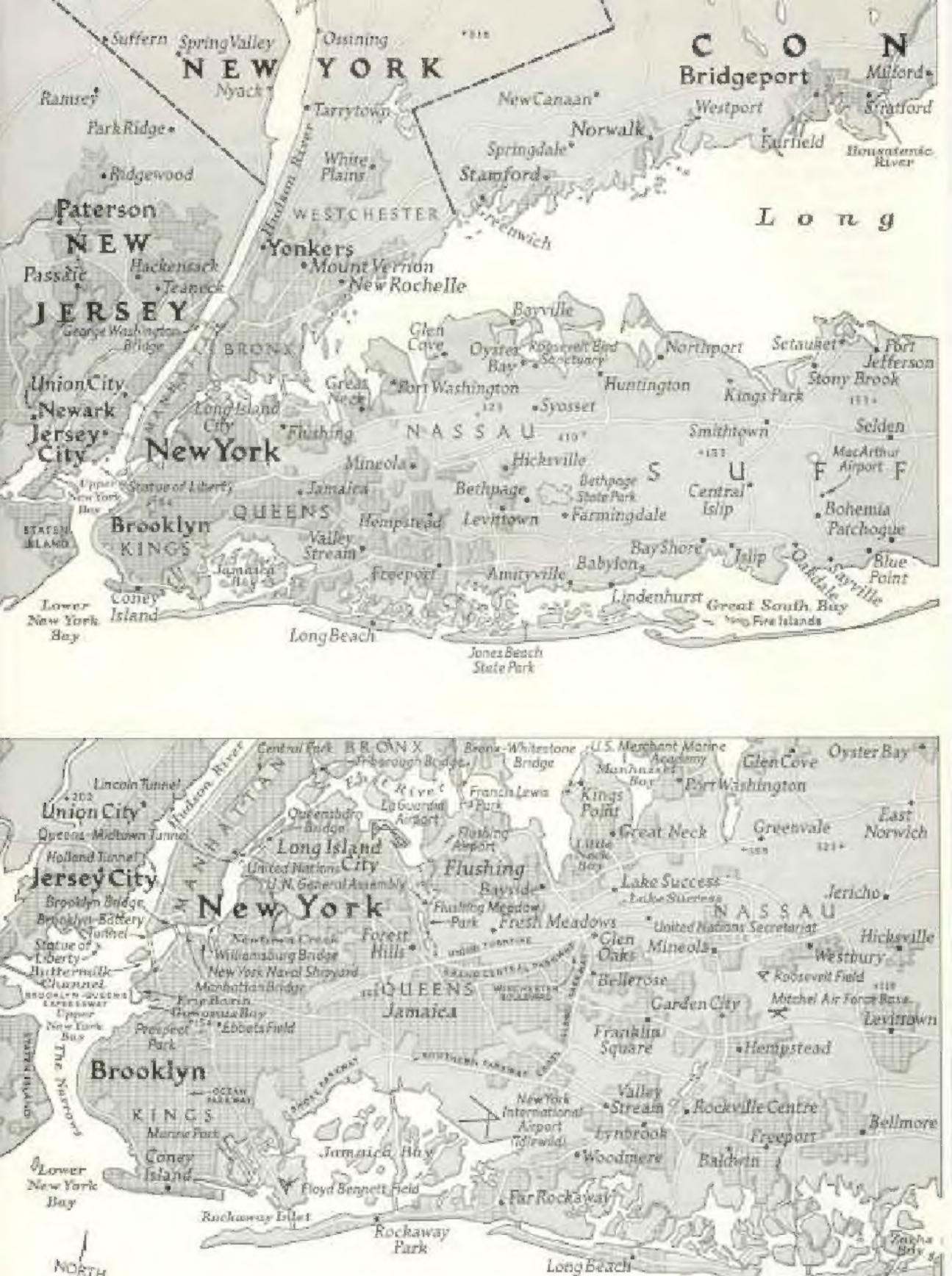
yard lines.

Levittown encourages youth, especially young war veterans and their families; it makes real the ex-GI's dream of a home of his own.

At the office where house sales take place across a long counter, I watched a veteran slap down a thick wad of green bills. While he filled out application to purchase, a clerk counted the deposit. The bundle of cash contained 80 one-dollar bills and four fives.

In July, 1950, this veteran bought a house

"See "Spin Your Globe to Long Island." by Frederick Simplicit, and "Henry Hudson, Magnificent Fallure," by Frederick G. Vosburgh, both in the National Geographic Magazine for April, 1939.



Atlantic

STATUTE MILES.

Jones Beach State Park



New Towns and Industries Stud Long Island. Its Growth Pages the Nation's

Glaciers shaped the island. It was newhere more than 410 feet. Bathing beaches, burbors, and fishing grounds crowd its 600-mile share line. Lower left: Map of western end shows most densely populated section on larger scale.

that didn't exist. Not until January, 1951, could be move into his brand-new home. A long waiting list, not construction time, created the delay.

"Levitt can build 600 houses a month," the clerk told me, "but we sell twice as many

in that period."

In his nak-paneled office, master-builder Bill Levitt and I got right down to Levittown figures, for he still had a lot of houses to build that afternoon. He spoke calculy, I scribbled frantically: by December 31, 1949, his company had erected 10,101 homes in Levittown alone, all since July 1, 1947, the figure would increase to 14,356 a year later, and go up to 15,046 by March 1, 1951.

Farmlands Sprouting Houses, Apartments

Although not on a Levittown scale, hundreds of other housing developments are changing the face of Long Island. Farm or woodland one day becomes a series of concrete foundations the next. Extensive estates long associated with wealthy New York families frequently are sold and broken up into suburban lots.

Besides mass construction of individual houses, colossal apartment buildings, complete towns in themselves, offer homes to thousands moving to Long Island (page 305).

I visited Fresh Meadows at Flushing in Queens County. It includes 3,000 apartments in two to-story buildings and 137 two- and three-story units. Begun in July, 1946, the community was finished and fully occupied by October, 1949. It has a population of 12,000 and hopelessly long waiting lists.

"Our tenants come from all over the United States," a resident manager said. "Industries mostly bring them, but many ex-service personnel stationed in the area during the war liked it and decided to stay. A large number of transport pilots live at Fresh Meadows because of its proximity to important airports."

Along with the popular eastward migration goes industry. Homeseekers want space for their families, business needs space for its plants. The general trend is a healthy one: transplanted factories find available labor in the growing suburbs, and residents find jobs close to home.

The New York Times summed up the

Since 1946 the UN has worked for world peace in make hift quarters at Fluching Meadow. Queen, and Lake Succes, in adjoiner Massat moving hate a sector Seretarial and other permanent building on Machatten's East Side, on Machatten's East Side.

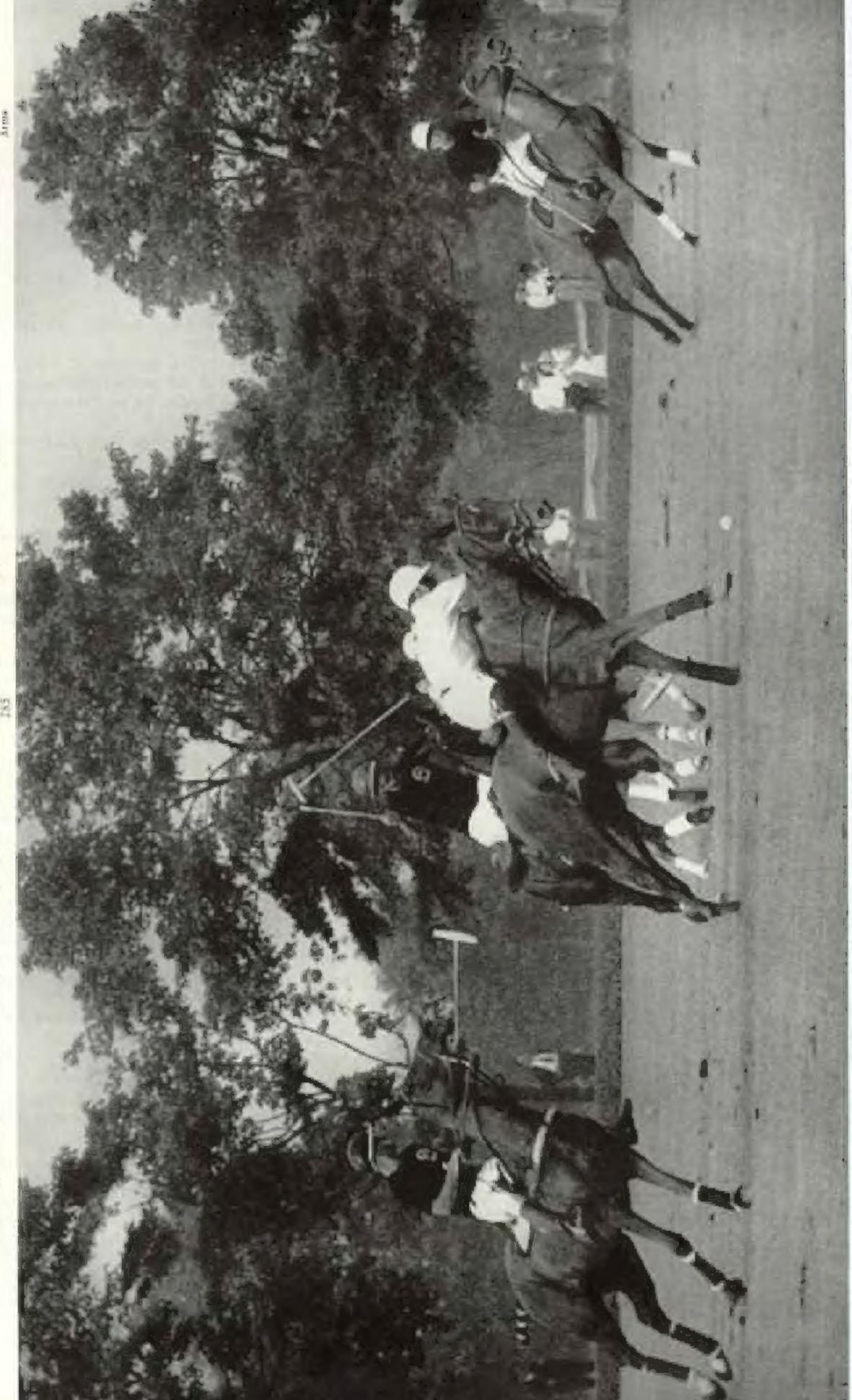
First reseting of the Gensend Assembly at the may bende tarter, will be held in 1932. For the 1931 serrion the delegates will suther in Europe. Here President Truman address—the Assembly at

Herr President Truman
address the Assemble at
Flashing Meadow on Octother 24, 1950, fifth anniversary of the UN charter. He
urged new efforts to bring
about dis armament and
international control of
itomic energy. Russia'
Andret Y. Virnically and
other Assembly vire presidents thank Mr. Truman on
the specific's dat.

Delegates, advisers, and distinguished courts occupy the main floor of the half occupy the main floor of the half occupation. Translators, television treews, and radio broaders from raised seats (foreground). The press watches from raised seats (foreground).

Mark Market

goalward, leading the United States team to victory over Mexico's four Grackin brathers (dark jerseys). Mendow Brook in 1946. Planned for 1951 is a series between the United States and Argentina. Hard-riding Poloists, Battling for an International Title, Swing Mallets at Westbury's Meadow Brook Club With a backband shot, Cecil Smith, Texas star, drives the ball. International matches, called off in 1939, returned to



growth of Long Island as a "revolt against the city—any city—and the cramped, noisy bustle of urban life."

In Nassau County I found a number of smoke-free light industries in handsome modern plants. They moved out from the big-city district after the war.

I went through a toy factory formerly at Brooklyn (page 293). Now in a low building covering a generous ground area, it began assembling plastic toys here in January, 1950. Most of the 750 employees either live near by

or expect to soon.

Not far from this factory i entered what looks more like a large university library than an industrial house which turns out office filing supplies. The firm originally started at Manhattan in 1880, transferred to Brooklyn about 40 years later and to Garden City in 1948. Of 300 employees, the majority have found homes around Garden City; others, because of frozen rents, must stay in or close to Brooklyn.

But the company didn't desert those workers unable to move with the plant. It tried to get them new jobs in Brooklyn; even granted them traveling allowances to test com-

muling.

On the outskirts of Mineola a potato farmer sold his 30-odd acres to the first big-scale

factory to make candy in Nassau.

"We've been here only since January, 1950," said a sales manager. "Used to have three plants in Brooklyn. Everything's under one roof now, better than being scattered; and look at all the room we have."

Yards of Sweets

An endless procession of thin mint patties put on chocolate overconts, then braved a cooling tunnel 120 feet long. We paused by women packaging candles. A full box slipped from the hands of one and smashed on the floor. She glanced at me as if to say, "This would have to happen when the sales manager is watching"; then looked helplessly at the mess and went on with her job.

At a new-idea bank in Franklin Square I saw a drawer full of Jollipops. Children earn the sweets when they open new accounts at special low counters in the Children's Depart-

ment.

Behind its handsome colonial exterior the bank building has much more the atmosphere of a department store than a money temple, it displays kitchen equipment, baby carriages, oil burners, cameras, television sets, jewelry, upholstered chairs, and other products of local dealers. For such items customers may begrow money on the spot.

At one time an automobile stood on the show floor, and an airplane hung from the ceiling; and they weren't toys (page 300).

In Suffelk County I found a lithographic company operating at Islip. Only a few months earlier it had shifted its whole plant from New York City. Machinery, including a six-color, sheet-fed offset press, stumps out 1½ million greeting cards a day. It also points gift wrapping paper, cloth faces for dolls, children's rag and paper books, pictures, and allied products.

"Before the company came to Islip," said the transplanted southern gentleman who showed me the works, "I was living on Long

Island, "

He knew, he said, the next best place to North Carolina when he saw it. And I know at least one place where millions of the millions of Christmas cards come from,

Jets Thunder from Plane Factories

As a cradle of aviation, Long Island has played a major role in aircraft reanufacture, which, with allied industries, grew mightly during World War II (page 303). Nassau and Suffolk Counties hold large units of the business: Republic, Grumman, Sperry, Fairchild, and Liberty.

"How many employees here?" I asked my

Grumman guide.

"Sixty-three hundred, but we had more than

25,000 in wartime."

With my guide I trekked through part of the immense Grumman factory near Bethpage. My feet envied workers who use bicycles to get from one section of the floor to another.

At the time, the plant was turning out more Panther jet fighters than any other type (page 320). We also watched finishing touches to the country's largest single-engine plane, the antisubmarine Guardian. And we followed assembly of the Albatross, a ship-sized amphibian to replace the old but faithful Catalina.

Grummun's boat division, only as old as the end of the war, makes aluminum canoes, dinghies, and sport craft. National Geographic Magazine staff members paddled two of these canoes on assignments from the source to the mouth of the Susquehanna River, and more recently down the turbulent Hamilton River in the wilderness of Labrador.

Near Farmingdale I visited another aircraft

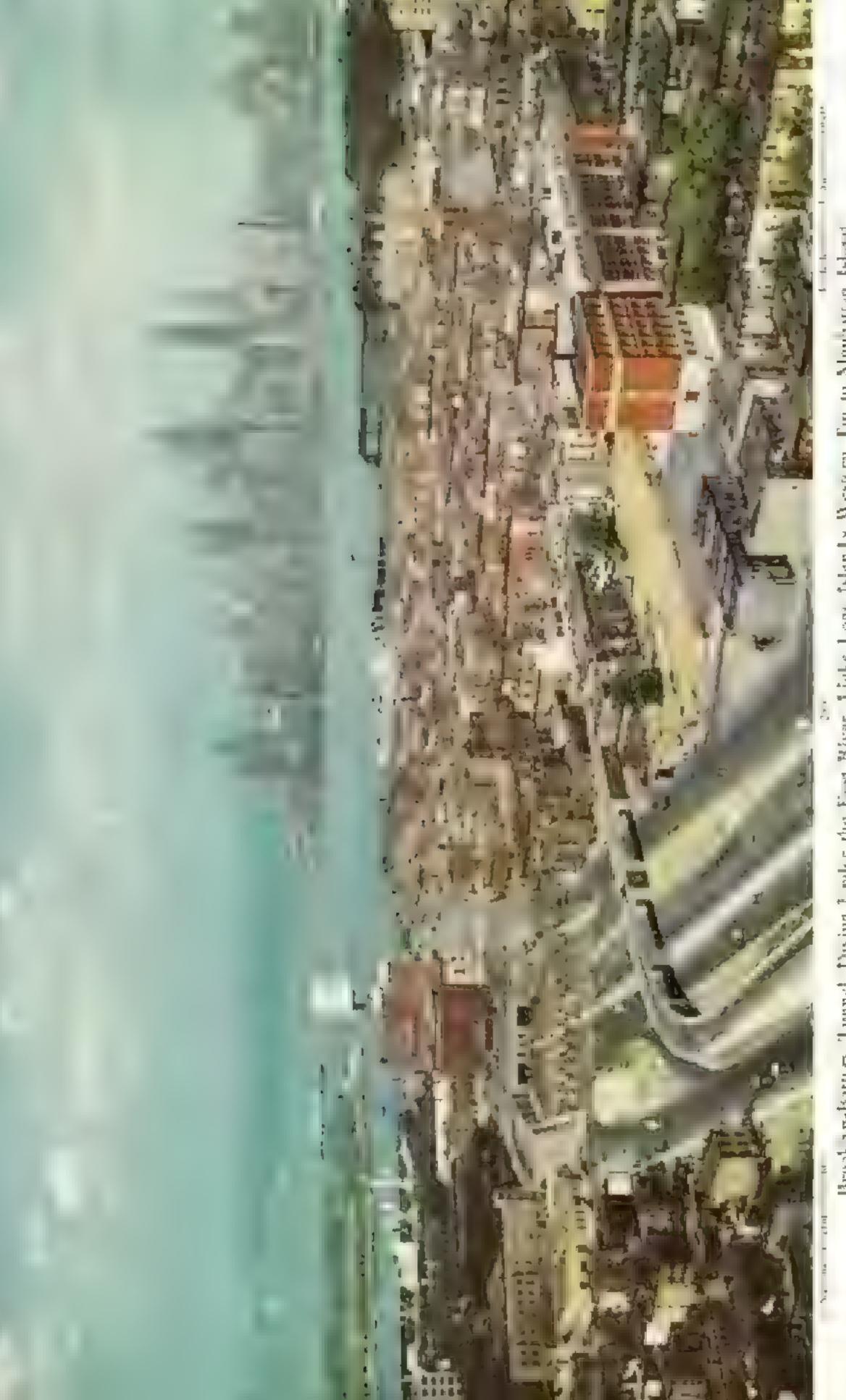
factory.

"Republic's philosophy, strengthened by the last war," said an official of that company, "is that a plane must fly fast; otherwise, you might as well walk. And the jet models conform to this policy. At the moment we're producing F-84 Thunderjets mostly; but we're

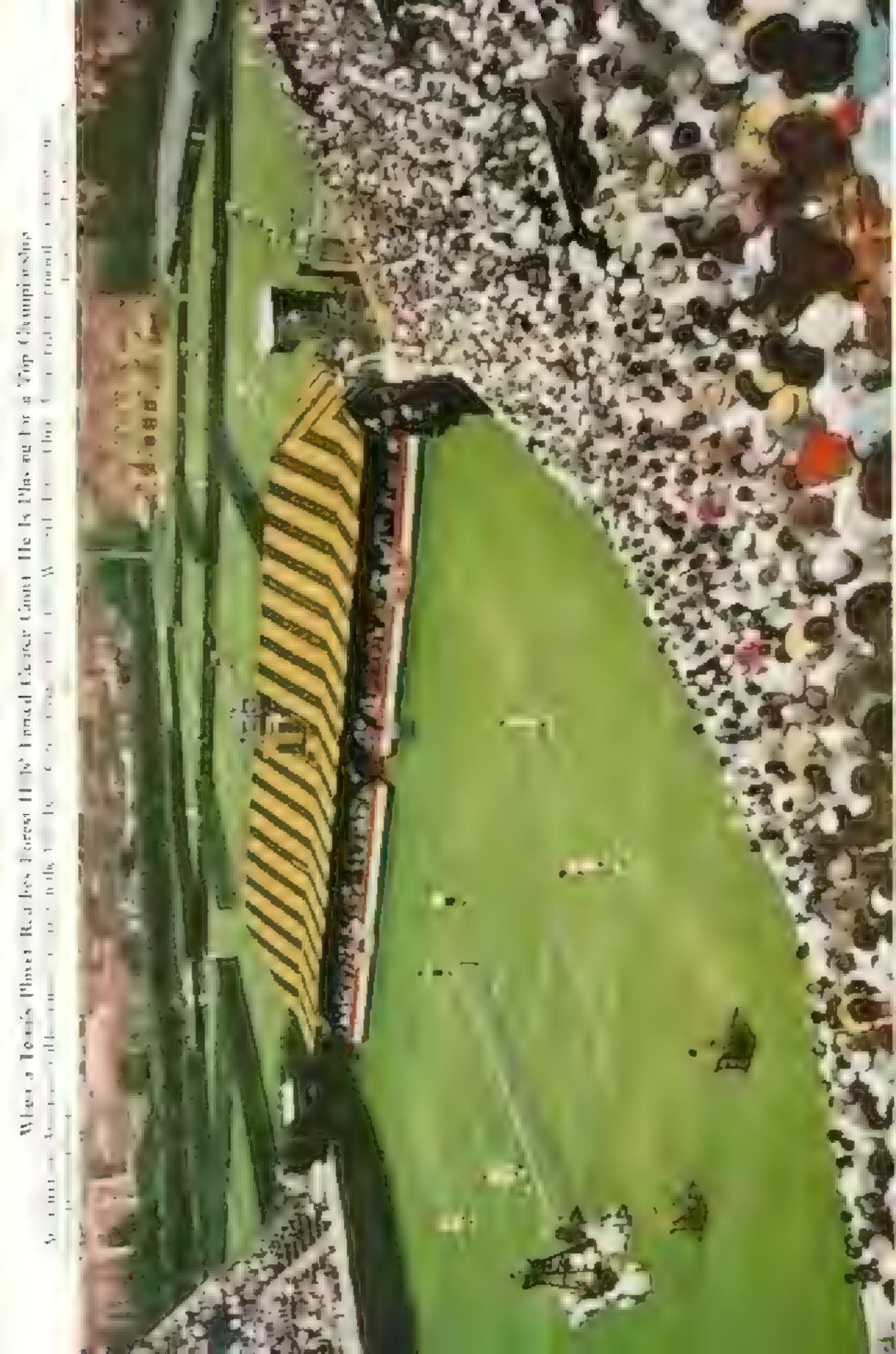


Summer's Fairest Breezes Drive Racing Yachts Across Long Island Sound

New York and Connecticut clubs take turns accommodating the Sound's week-end regattas. International-class sloops here hit the starting line off Port Washington's Manhasset Bay Yacht Club.



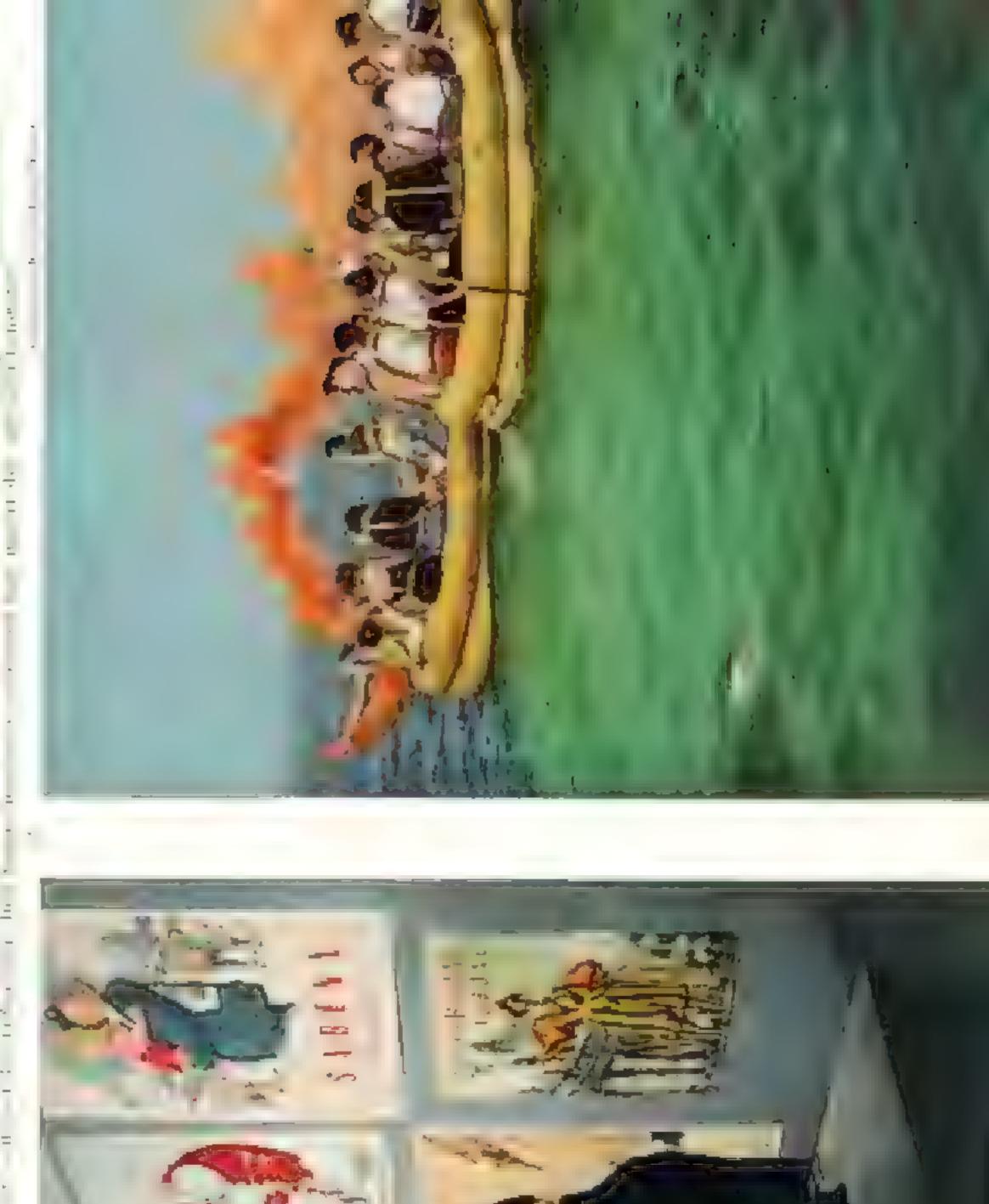
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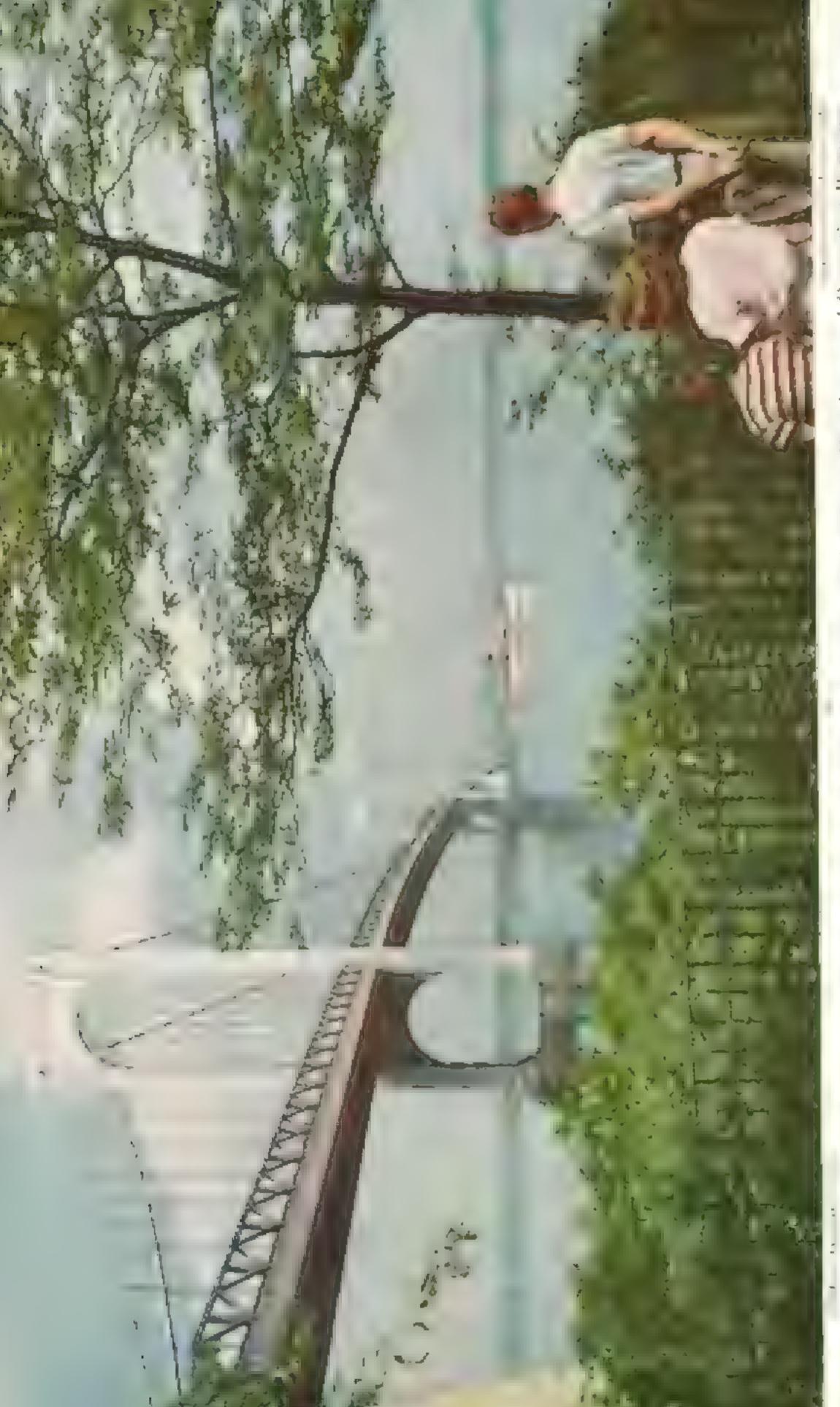


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pulling still newer types of jet aircraft on the

By the way," he added, 'as you go through the plant, I sten for a rhythm in all the noise. If it a regular and steady, all's well. If not, something's fouled up."

I heard the thythm.

"We anticipated Featl Harbor," said fiveston R. Hassett, president of the Sperry Gyroscope Company. "Our 50-year-old Brooklyn plant had to expand. We scoured every State in the country before locating here near Lake Success.

"Why this site? Recause of 114 million potential employees within a 10-mile radius. It is an in a construct to the first in the new plant during the war. Ours is a clear, prepision-type industry that requires intelligent labor."

Compass Needed at Sperry Plant

Six months before Pearl Harbor this Nassau site was on open field. By February, 1942, production has began. The company engaged 33,000 workers at the peak of war activity. Even today Sperry keeps 9,000 husy.

Fresident Hassett left his desk to show me the enormous estal, listenent. Had I tried to find my own way, I should have needed a compass—I mean a gyrocompass. Sperry makes all its own parts; assembles them; and

tas its own foundry.

liere, as at thrumman, bleytles are available to cover bug floor distances in the bage plant.

Since Sperry's original production of the gyrocompass in 1910, this has remained the

"Not nugnetic, the gyrocompass points to true north," Bassett explained. "At a simply based on kinetics, or the physics of motion."

World War II's Sperry bomb sight worked

on the gyro principle.

We looked at automate pilots and radar equipment, then conscratated on the Zero Reader—latest thing in air instrumentation. It gives a fiver only one thing, instead of a score, to watch on his instrument panel.

For altitude, direction of flight, and radio beam he tan set the proper duals, then keep an eye on just the Zero Reader indicator. He knows that as long as he keeps the intersectan of two wires on the center det, the plane

is flying as desired.

After the war Sporre rented extra floor space to United Nations for offices and council chambers. This remodeled section of the factory at Lake Success has served as temporary headquarters of the Secretariat, one of

the principal UN organs. Here 3,500 persons work for International peace and security

(page 284).

I wasked past flags of each of the 60 member countries to enter the UN headquarters. Also a seeminally enclose coroldors I passed peoples of all nationalities, some Orientals in native these but most in Western park.

Then at last, in the Security Council Chamber, I stood belied the president's chair and booked over the members' horseshie table too ward stepped up rows of seats for the pullic. The Council held no session this day. At the moment I alone peopled the great chamber and thought, of courst, that if these walls could talk, . . . Actually, the walls could have to speak; every word spoken here is permanently disk-recorded—verbatam in English and

to the Nassau and Queens, and the disposal of member wakers.

Long Island has had no trouble absorblut foreign elements of U.N. Their children go to American schools. A humber housewife tearns the currency, prices, and bow to shap UN people buy cars, patronize stores, and spend many just like anybody else. In fact, they by into the American picture

"Many settled in Great Neak and made it cenerally more cosmopolitan. I know, because I live there myself," the press man continued. "Another thing; awareness of interpolitonal problems has greatly increased on Long Island since the coming of United Nations. The interchange of ideas has been profitable.

"A large number of UN employees will stay on Long Island; they have homes here now, and they like the place," be concluded

Grade and high schools for swelling communities must cope with rapidly growing student hodies matched only by a few other ureas in the United States. So Long Island keeps on building.

I visited three colleges: Adelphi in Garden City; Hofstra at Hempstead; and the Long Island Agricultural and Technical Institute tear Farmingdale. In interviews with their presidents, each told a stary of recent expansion. Ad have added new buildings for entollments which have leaped from three or four pundred to several thousand.

Long Island is a natural playeround; but Robert Moses, the tilented engineering and

^{*} See "Flying in the 'Hangloomh' For " by Stederick G. Vochurch, National Geometric, Macanin, Schlember, 1959.



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A friend and I went to Jones Beach on the wouth share one Sunday, so rid 138,950 others; even more tried to get there. For 40 minutes penice but, to particule thoroughlates to the share where concrete parking fields holo-16,000 aut mobiles at three. Carloads turned. away, hut more waited for the abukade to turgak.

We joined throngs on the boardwalk along a third of the six-mile brach. Books in every stage of san-tanning or under bug bright umbrelies almost completely obscured the yellow sand (page 104). Games areas insided ndules and children to play shadelessed, paddie tennis, table tennis, and bandbull, or toarchery and the 18-note plack and putt it do course. Muley refreshment payations, calesand rest parants with tal les on out long terral es ±a त्रक्रीमा मात्र इ. त्रक्षणी कर्

Steer with Window Ands Research

Have you ever seen a live, healthy steet with a window in his side? Such a thing exists at the Natural Dairy Research Laboratories in Oakdate. Through the extra redimury aperture scientists paintessly taken samples of partly digested folder straight from the first compartment of the hoving s four-part stemach. They look for leasterly that bely the avimal digest his food,

The Research Laboratories hope to find the ideal food ration for animals. Working with Inwagrade fodder only, they want to discover what I afteria to compline with it bistend at using com and ther grains suitable for hismans. Then food-short africs touid support

a cattle industry

Since 1947 National Dairy Research Labopateries, Inc., has occupied the former Wilham K. Yanderlillt estate at Oakdale. The company has converted a large part of the 110-room mans on, carriage bouse, and stables min Liberatories. Marielnologists and dain: technologists study in the former moont fether pourt. Animals for feeding experiments latter. the automorphism and agreements under what was more a squash court. Test baking with Juled milk pilears a section of the vast kitchens.

With some members of the staff I lanched In a paneled calcutta, once the manaout's

halleard in order

One hamared and thirty of more sclentists do research on milk, ire cream, theree, luster, animal and positry feeds which receits. many a her dairy and fixed products, as well as on by-products of the dairy industry which find uses in fields other than nutrition.

Into the Pine Barrens I drawe worth to back n MacArthur Yepont, le à public of minutes I fact, un perlanam mala und microbes to giant bombers and jet planes testing the ; ir instruments of tono frow.

Down on the south shore again, I went east : long reads which stayed nearest the water. I touched at filue Point, breeding pround of that celebrated oyster appearing on menus & over the map. And in the vicinity of Mastic and Maticines I contered the farming region which some 60 years ago first hatched the ducks that belied make Long Pland famous. White as new-fallen snow, they blanketed the banks of tid. I streams; and they prattled nime garrulously than an army of old heas!

Some place names appropriately sounded like granking darks Speonk, Quiosue, and Quegae—a≤ I dinave on. Soon I crossed the carril linking Shrape ork and Great Feconic 11.14 3

in the Shancecock Hills area white mun's sport took over the Indian's hunting ground. Here spread the exchange domains of the National Golf Club of America and the Sninneenck Halls Golf Club,

Down I reasted to Southampion, one of the addest English settlements on the island; if d tes back to 1640. But one would never gues its vererable span, seeing this fashionable and tiletly nucleum result by the sea. Fancy branches of Firth Avenue emportums late the main shopping streets. The rush of sugmer visitors dispels the quiet charm of the centuries all village.

I did sae, however, a "vest-pocket" bookshop in a gambrel rocked corrage wearing a Listo date line.

Palatial homes and clubwrite estates have urned the once hamble hamlet into a seasona, capita, of sacrety. Mendow Club invites the world's foremost tennis process or velvety grass courts. To the beach, Riding and Hunt, and Schenar Vacht Chile, social register names lend tone. Society news reparters and photographers carely miss a widding at St. Andrews Done Church

True natives of Southampton in old shiftes: were really working for a hying. | here-deep. or despec in a unitally automa they grappled with long tengs for class. I wondered about the owners of near-lov mansicity on the dunes. where druting sand and many taxes piled ingher and higher.

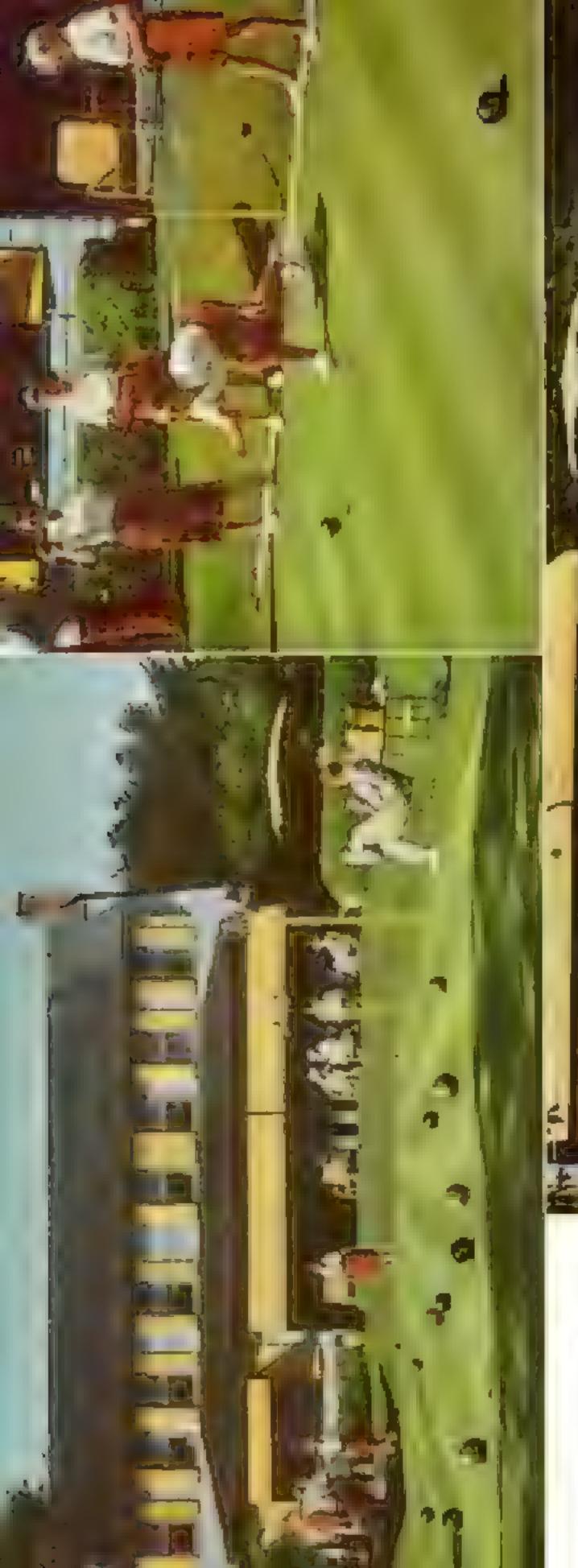
Holly kocks and Home, Sweet Home

Tarough some of the most productive polate country on Long Island I resumed my eastward journey along the Montack Highway, thrasionally the green acres yielard to fields of ripeting wheat of teady to harvest rye; they formed warm golden patches in the late afternoon, sun-



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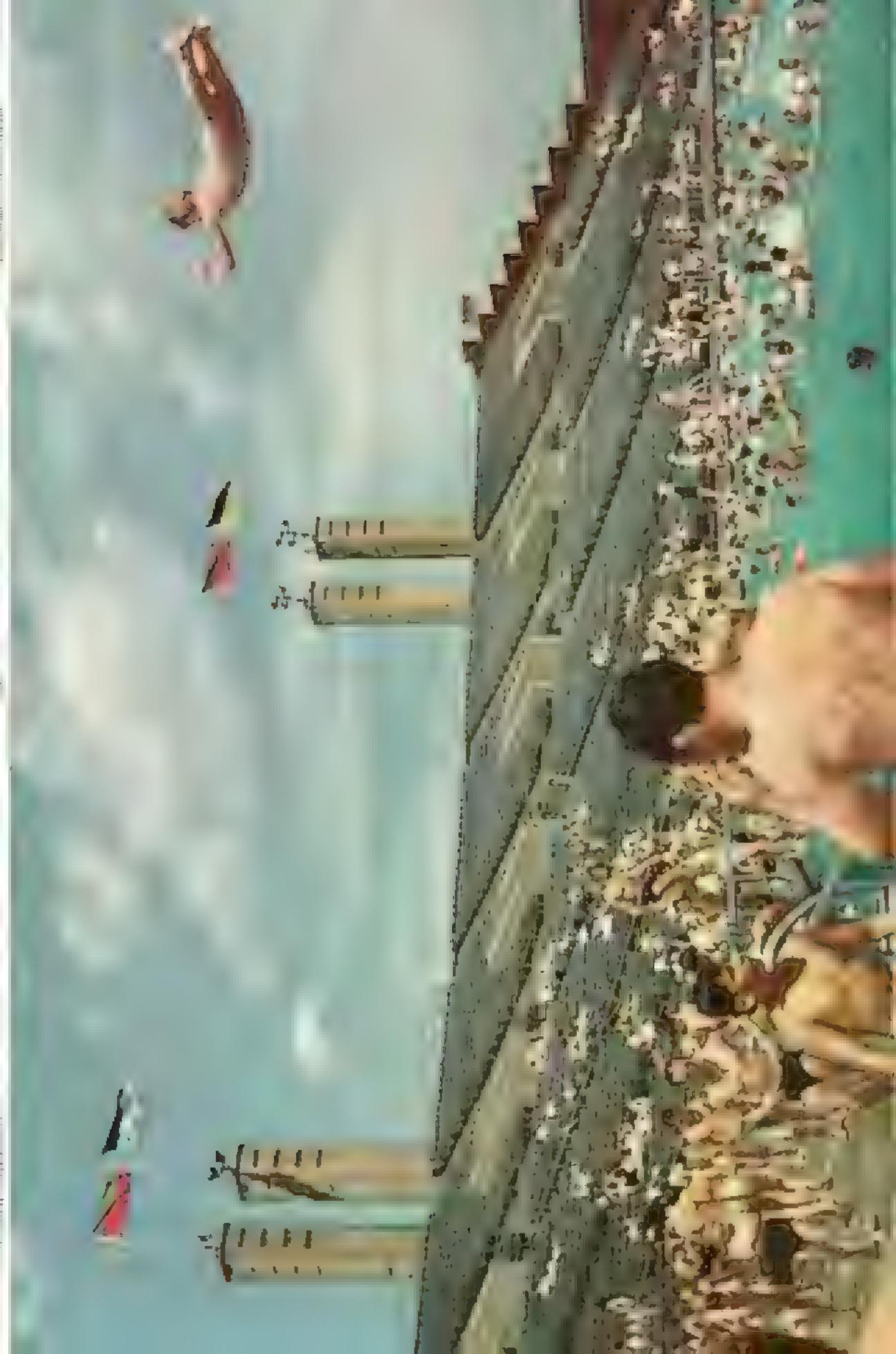


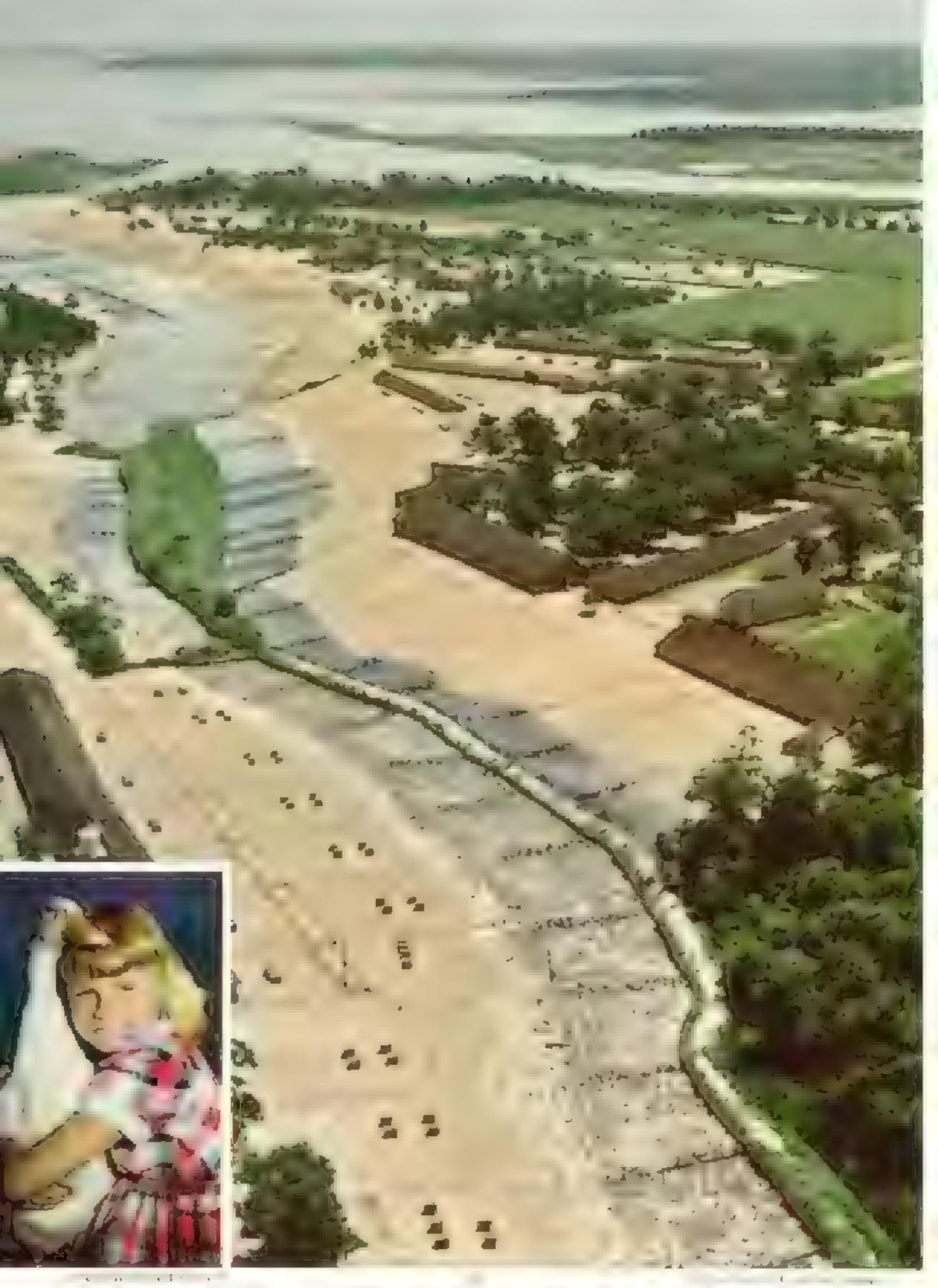
No Stop Signs, No Traffic Lights. Long Island Pulkways Cross Like Bridges over Rivers as Island I am I have been been as a fair to be a

Buthers and Laprellas Carri he Sand at June Beach

11 41







Pekin Digha Civer a Stream with "Snow." They Live Nine Weeks; Then—the Quick Process: Sails Control of the control of a routh of a r

At lest I reached hast Hampton and some I und our what inspired John Howard Payne, who once lived here, to write the immortal Howe, Surer Hame. Whether or not one of America's most beautiful villages, there's no place like East Hampton for me

A Salt-lox type with shingles all over, Payne's home stands in the shadows of aged trees and a heary windmill. He lybecks grow along its pleast fence and near the front door. A trees wrighting up walls brush against windows with the breeze

I woman at the entrance of this house collected a modest admission fee, pointed out lusterware, 17th- and 18th-century furnishings, and talked of John Howard Payne. When I started to leave, she asked if I ditte to hear an old pusic loc. Its wiry bristles fairly melted into the soft, slow melody of *Home*. Secret Home.

it slight chill can along my spine; the skib on my wrists sprouted goose desh. I looked at the wrman. Her eyes were on a

"It tees something to you, too," I said.

"I've been around here for years," she confessed, "but I can't hear that for e with-out feeling it."

As I went out the door, she called, "IR watch for your story because I think you'll remember this place". I do indeed:

At the East Hampt in Pice Library I spiled on Mr. Morton Pennypacker, to see the most complete collection of Long Island volumes and documents in existence. Forty years ago be set out to gather 200 books dealing with the island. Authorities tried to discourage him: that much had not, they insisted, been written on the subject. Now a freproof section of the history holds 120,000 items, reducing 20,000 hooks, all relating to Long Island.

Prize of Long Island Collection

"Which single item do you prize most nighte?" I asked the gracious elderly penties and.

He unlocked a drawer and took out a volume stained with age. Known as the Dicke's Later, it was written in longhand and paplished in 1605 by Rahard Nicotls, then English governor of the Ducke of York's lands in the New World.

A windmilt still grinds grain at one end of Main Street; a mossy-banked duck pond reflects at the other. In between, old homes, magnificent class, and pleasant greens help preserve the peaceful appeal of three-centuries-old East Humpton. To take funds for maintenance of public lawns and trees, the Ladius Village Improvement Society annually.

stages a one-day fair; from the loose of things they do well (page 321).

In hast Hampton I stayed at a friendly guesthouse across the street from the John Drew Memorial Theater, named for the renovned actor, who lived in East Hampton

Montauk, Meeca of Lure and Lens.

Mortault, easternment point of Long Island, used to be considered the end of the world. Cattle grazed around a lighthruse built in 1797 tpage 321). A hamiful of people fixed outsiders went there, mostly to fish. I difficult satisfy roads discouraged communication with the rest of the island.

Carl Graham Tisher may not have been the first to see Montauk's possibilities, but in the 1920's he took the lead in trying to develop them. With amazing success he has already transformed an numbabited tract of south Florida shore into the fabulous Miami Beach. Except for a senes of misl munes, including the Wall Street trash of 1929, Fisher might have made Montauk a worldrensweed resort

Since 1940, I owever, more and more people have been ping to Minimus. In excellent highway now extends to the eastern the and to two State parks in the area. Permanent population of Montank village has doubted in the last ten years. Crowded hotels turn summer visitors away; other hostels under construction will absorb some of the future overthose. Today the community continues to know on the multimillion-dollar forms attentain by Carl Fisher.

"All abound for great fishing!" shouts the Long Island Rail Road.

John mid-May to Nove ber the "Fisher ann's Special" leaves New York (Ity overs Saturday and Sunday at dawn. Three hours later it discharges swarms of tinglers at the Mortank docks.

I saw some 300 men, women, and children pour off one of these trains and race for the pier at "Fishangri-La." Within 15 minutes only on the last afternoon they returned laden with sen hass, tank, redlack, fake page, blackfish, bluefish, and make the range and small. At troughs the fishermen deaned their ratch, Well offshore reconcatches of swordish, lung tuna, and blue and white murtin lune sports fishermen to Montank (pages 324, 325).

Generations of Long Island fishermen have lived by what they could take from surrounding waters. Besides the fish we've already

met, tons of clama, rrabs, oysters, lobsters, mus-els, and scall ups bring add into of dullars each year.

Whaling Built Salty Sag Plorbor.

Whales, for historic comple, built Sag Harbor, which nestles in a safe haven of Shelter Island Sound. Between 1820 and 1850, the village's most prosperous cra, the local fleet cultected nearly a million barrely of whale oil and more than 3 million pounds of bone.

Then came the discovery of petroleum in Pennsylvania, and harpoons went the way of arrowheads. As whaling blew right out of its lde, Sag Harbor limped landward sike a fired વર્ષ, જ્યોદ

Still, the rich memory of Mohy Dick Rives on in the little vallage. Big hones, some palatial, attest the splender of the good old whaling days (page 326). On a particularly imposing mansion, pow the wholing miseau, I admired a decorative pattern alternating Hubber spade with whale twith.

Prinadly residents showed me the Presbyternan Whafers' Church, its steeple book off for kingdom come with the harricage of 1958. The interfor's simple beauty remains haut: clean white walls, pews with gutes and silver turne plates, and, of all things, shiny brass

cuspidors on the floor!

Whaling alone, however, tithn't distinguish bag Maring. As early as 1789 our first Cengress opened a Cuited States custombouse bere, the same year that one was established in New York City. And two years later the Village scooped the entire Island by publishing its bist newspaper.

"The most significant change at Sag Harbor in recent years," said a friend who lives there, "is the growing interest of residents in local history and their heritage. They no langer take these things for granted; they now make an effort to preserve them?

An Edison Spirks New Craftsmanship

And an outsider caught the spirit. In 1945 Charles Edison, furner Concernor of New Jersey and son of the revered inventor, bought and removated a rambling old home three occupied by a whaling family. Governor Edison also saved the original custombouse from possible demodation and helped finance its responsition.

Although he already had huge industries in Now Jersey, Governor Edison looked for something more personal than mass labor and mass production. The sought a closer relationship between employees and their jobs. Chaftsmanship interested him; the ancient art of

using one's bun is with skill, not simply turning switches or pressing buttons, fascinaled him. In a phrase, he winted to humanize industry.

He like! Sag Marbur and its people: offectionately they caded him "Governor," He sensed the community's self-tellance, respected its solid American background. So here he set, up several small-scale industries, empl ying village folk.

At one of the new lidison plants I watched women arrainging coils for the Jahphone (distation machine). A team in an adjoining room turned but caraboard cylinders to encase the

delicate parts of this instrument.

* Now 1 II show you something more in line with the Covernor's fundress for things made by hand," and a supervisue took me to an-

wither bille factory,

We booked over the shoulder of a man working with fire and glass. From heated tching he made delicate perties for stirring beverages and of one end of cach he defily fushioned a miniature animal, bird, boat, or something of the sort—all done in glass and by hand, He used no mold, seldom relied on models

Sea and Land Yield Heavy Harvest

North of Sag Harbor a quick ferry trip put me up Shelter Island, wedged between the north and south facks of Long Island. I could have lingered indefinitely, exploring wille beest by a phases manus, it lonely beaches; but I had to keep an appointment with oysiers. Another short terry rale, and I landed in Cheenpurt.

There I met Charles Worley, manager of a company that plants, breeds, transplants, dredges, packs, and ships upwards of 150,000 bushels of oysters a year. Quality? They come from some of the best opster grounds in the world: Long Island Sound, Gardinets and Peconic Bays. By train they go to tables

as for afield as California.

"Since it takes four to five years to raise a crop," Wooley said, "and since we've neen working these waters for more than 40 years. we should know bow good they are."

As we moved through the plant, Wooley explained the steps in preparing eysters; grading, washing, some shucking, and packing in sizes ranging from quart can to threehashel barrel. Because of Long Island's extralarge varieties, 75 percent are shipped in the -incli-

Farmlands around Greenport import labor for the pointo harvest. Driving toward Orient Pelat, I saw scores of thisky field hands digeing spulls. I stopped to talk to the colored



A. Fleeternic Diagnostican Protects Mossic Researchers Against Concennention

This histories in historian at Long 1 and 10 ft and North Laborately effects be all the source as The transfer of the Geleas counters two for each band and are the time at the a state of the contract of the or specific the facility of the first of the

bradiann of one crew. He sat in a big black. Agriculture estimated Long Island's 1950. ed or with a file helican

He ver potatoes this year?" I asked. Let I be than the price they bring," he rephase with a shrug.

In all controls to the fact that the fact that Island's potato barrel. I headed for Riverent by true it mestern stall with start the termination of the state of the st Long Islaach

I are reduced to the rest language. 1 kg/s p 2 g / sq. 13 p 13 | H | 2 ht | 1 h The to tell for the Part in the second on the ground floor, each 9); feet long, 5 high, and J deep,

Millions of Bushals of Spuds

Riverhead lies in the baset of one of Nev-York State's richest firming districts of our this region enormous quantities of patatoes, produttives, transsels personal form of ducklings flow to nationwide mainte-

Polatoes are to Long Island what they mean to Maine. Spholk Co. A come that the company of the golden for the state of t are 42 to pure the second of the Clark and see or up. The Department :

harvest at 18.615,000 hushels.

Harold Econs slowly drove his truck through a field while lusky field hands tossed 60-pound sucks of spuds abour 1. When In long was finish I have ween court talk with me.

He we have the first been in because which on a line to be the time the of irrigation and said that this farm installed The second secon e the transfer of the first of to reality, with results the latered wells. backbreaking burdens

"See that has stack over there?" he pointed the right reser to chied it; all designly r a lore from coating to piling

"Nowastays, a farmer must be a mechane too," Evans summed up,

At other farms I saw much caudithower in early growing stages. It ranks as second largest crop on Long Island, has area in the United States to mise this recetable on a big scale. Soff dk's annual production of , as the term of the least the second of the The state of the s

Al a field line a long that the fire file



Perspered by Shut Are the Liver of Lines Island's Downy Dickings

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Ducks and Drakes

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Notes. Al increase Masser, Montana, invalue and desire of a first name for I-land

on their farm near Riverhead. We mad to the early voices, for their trace dricks. The quacking and peeping a middle of the last terms ful stag chowder party.

the father said. "Started out to make it a bolds, but the thin crew and grew, the way ducks dir.

the end of the second of the end of the end

I drapped down to Eastport to visit the fong Island Duck Packing Corporation. Varits kept at 65 degrees below zero yearly freeze millions of pounds of farm produce—largely poultry and vegetables. For farmers it can bold ducks in frozen storage until prices (avor sales (page 319).

Notion's Biggest Research Reactor

In 1946 a group of scientists from leading universities of northeastern United States distured the type of machines needed to learn exportant new facts about the atom. The trachines, they agreed, would be too hig for their own institutions to afferd. So Associated Universities, Inc., was formed and new operated Brookhaven National Laboratory at Upton as a Government-branced project under contract with the U.S. Atomic Energy Commission (page 313).

Brookhaven scientists," explained an offiret of the organization, "are studying the atom
much as primitive man studied a bird's egg.
In both cases the object is broken open to see
what s inside. But the smaller the atomic purticle, the harder it is to break open, and, therefore, the bagger the equipment needed to do
the job. In fact, so we of our tools are almost
as large as a Navy destroyer, in contrast with
the traditional test tube symbolic of the science lab scatory.

"With such devices, scientists hope to make important discovenes about the nature and the characteristics of neutrons, protests, means, and other particles much too small for the paked eye to see,

The first such tool, the Nation's largest and must powerful reactor designed for research, went into action As gust 22, 1950, at Brook-haven.

The new reactor (or pile) is an "atomic furnace" in which the "burning" (or chain reaction) of transium atoms produces quantities of neutrons for experiments.

Brookhaven scientists are also studying the physical, chemistal, biological, and medical effects of nuclear sadi tion on matter of all types, including living cells. For example, I saw a comickl under atomic multition. It was a strange sight, with yellow signs warning persons to keep a specified distance from the "bot," experiments,

Atomie Knowledge to Improve Life

But knowledge gained from tests such as these may help man learn how to apply that ton to improve—not destroy—plant and as mal life. Broushaven, in short, does not produce atomic bombs—it produces knowledge (page 319).

The tall channey of one of the most modern power plants in the United States grided me to Fort Jefferson on the north shore. The district before Lecember, 1948, had little need for a station capable of generating 100,000 laboratis. Then, there wasn't much industry in this region, today experiencing the sudden growth and change felt by the entire island,

West of Port Jefferson I found a striking thange at Stany Brook. Refore the war the village kooked like any run-down suburban community, with shabby shops and decadent dwellings.

Now rivid spirit has re-created the 300year old settlement as an ideal village of the colonial era

Its shops, atchouse, post office, even a gas station, conform to traditions of 18th-century architecture. No everhead wires at signs may the purity of these buildings facing a wire village green. The civic center model—1750—, le—for the 1951 planning and construction of other Long Island communities.

Westward along the north shore I continued to Oyster way. I walked up a quiet path to the grave of former President I her lore Rensevelt. The plain stone that marks the spot gives simply his name and dates of birth and coath. Beneath this inscription appears the similarly understated epitaph of his wife, Edith Kern it.

The 12 acre Roosevelt Bird Sanctuary adjoins the temetery. Owned and administered by the National Audubon Society, it stands to the memory of the 26th President of the United States.

I to lowed a lane through the wooded vale where Roosevelt as a boy observed birds, anomals, and trees

I couldn't count the fleets of racing beats I watched one Sunday at Port Washington's Manhasset Bay Yacht Club. Off barbors of along the north shore, the coasts of New York and Connectmut, the Yacht Racing Association of Long Island Sound stages sading races each week end of the summer season. Clubs around the Sound take turns at being host (page 287).

Annapolis of the Merchant Marine

Circling the head of Manhasset Bay, I drove through Great Neck to kings Foint. Here, in quiet days before Fearl Harbor, spread the rlabotate estate of the late automobile engineering genius. Walter F. Chrysler. A month after Fearl Harbor this property became the site but the Annapoles of the Merchant Marine By 1943 the United States Merchant Marine Academy had enrolled 2,670 potential sea captains.



Young Brankbrites Desert His Sidewalks for a Dance on the Green in Pringert Pirk



Isosofrina Tatre Delivers a Vigne Drug or Masked Weakers in Burneia-free Cabieles

The open to a tenental late, tetrames and Charles I fixer and and the late of Paris and the second s

Rand on the early Indian trails in proved at a faight) I relied into Long 1 | 100, houst with a real fronklyn, house of the day from the following the following the following the following the first from the following the following the following the following the following the following the first from the first first first from the following the following the first firs

How the that there is the re- from this city of ment, there is no people, then four acute angles on the role of quitons the water unit; foode inchestry and at a urse, in a grantistand seat at Fiblicis Field.

Hole that New York Consults the Renation to the Renation of Brooklyn Bridge and that the Long Island. This end of that many the state of the Long Island where the renation of the state of

And over here, on the resident, ide, more house like secletons with thank hold we eyes will make way for a unique traple-disck lineary. Her Bookharthrens Depressing, to be completed in 1952 (page 288).

The many trees prow in Brooklynt Church spires, too. Besides the \$25 green agree of and-ray Prespect Park, 145 other parks range

In size from less than a quarter-acre to 1.800. You can't see Coney i hard for con residual you can drive there a no tree-a not Deean Parkway in half a car or as up to 2. In

It prove the brillian mile beach and boatdwalk, indivays, fine chabs, and cases less crewded than expected. "Gone to work, back next Sunday," might explain

Seeing Brooklyn's Busy Water Front

any one of more than 500 on New York Bay. I bounded the Moira Maran and joined Capt. Anten Must be in the wheelbot.

He steered toward the Army wharves at the limit was to be toward to a transit and transit

Now her line much. Many passed by the Bash forminal piets; nosed into the population Governs Ray under a security from the Bash stacks of lamber as force Bash thurned through Batterines Coursel Security 215 miles of the New York Dock Course.

As we made our way. I began to see where see tall 1 of strongs of a me no accordingly, unbaded, or made repairs

We passed unly the worklyn and Manhattan Bridges and that the cricicus around of roasting coffee. It came from the of the processing plants that make Brooklyn one of the biggest handlers of coffee on the globe. The smell reminded the skapper.

"Three coffees, all with cream, one with sugar," he called through a wheelh use

window to someone on deck.

Hefty steel crames towered above Brooklyn Navy Yard (New York Naval Shipyard) like a groun of the ince- of the hort; we like At this "norther of all our navy yards" more than 50 000 men worked in World War II Now packed with nearly every type of warship, it seemed one long floating factress.

Moira found factory-banked Newtown Creek too clogged with freight burges to praceed; so headed back along the East River. The skipper picked up the ship-to-shore telephone to actify his head office of our return. We had covered a water four that handles about 60 percent of all the shipping business.

done by the Port of New York

Brooklyn's water from forms America's higgest commissary, just across the water from America's biggest market. Part of Bush Terminal Raddings Company is a georety store in itself. Tremendous tracks and small flatcars in tractor-sitawn traces moved cases, cans, eachs, crutes, jugs, and drums of familiar food suffs. We even saw rolls of wrepping paper as big as those that go to these furses

Bush Terminal Buildings Campany rents
to buildings, covering approximately 10 city
blocks, to industrial concerns. On a total
floor area equal to 110 booth al fields tenunt

companies engage 25 000 workers.

they numericative anything from identify parts to thewing gum, from biscuits and bedding to champager and lamp shades, contactive form implements, wooden livels for a large properties of a large properties of a large properties of a large properties.

Brooklyn's Trade World-wide

Brooklyn to les with the world. In the of himserous wavelouses at Bush Tempinal Company I noted such imported items as tractime rabber, pepper, African palm vil, cools hutter from Brazil, spices, wool, green coffee, cools brans, soybeans, rinnimon, in ca, shellar, nails from Germany, gain copal from Indonesia; also toys made in Japan; egg yolk, feathers, and horse hair from China.

One handred years ago a chemical company under the name of these used much from but toms of wine casks to make cream of terrar for baking powder. To by this company, with modern laboratures in north Bruddyn, has grown into one of the world's largest pro-

uces of penicillin and other life-saving drugs (page 317).

In January, 1950. Prizer announced its own discovery of another multiple-purpose drug called terranycin—"penjuilin s newest cousing

makes dying at II more difficult.

Pilzer produces tons of attibiotics (antimicrotial substances isolated from the soil, for example). These affect the microbes but not the cell tissues of the host. Terramycin is an antibiotic; it stilles the life processes of germs; it helps patients recover from many fills, among them blood poisoning, virus paramonia, whooping cough, tonsillates, strep throat, among ic dysentery, slungles, and veneral diseases.

Druge and Bugs for Saving Life

To all corners of the earth Phier sends kits to cohert soil samples to be tested in its Brook-lyn inhoratories. Of 100,000 such samples put through long-tune screening experiments, only test unytin proved effective enough to become medically important. Still, clinical evaluation of it will continue for months to come

"Bugs are cur employees," said the president of Phreer. "Everything here stems from fermentation technique, in this work we use

organisms to a great extent."

Pilzer has developed trement usly in the last 10 years. Employment (not counting bugs) jumped from 500 to 5,000 workers. The products traveled everywhere with United States forces during World War II; go with them now. Notices in far-off lands who coult read English have learned to recognize the label on Piezer bottles and packages

The natives of Brooklyn are remarkable a friend of mine asked a Brooklynite bow to

Got Montague Street.

"Well, if it's tickets to the ball game you want," he began, then gave explicit directions to the downtown if ket other at No. 215.

So we went to Foliety Forld and watched brooklyn's beloved Dodgers kon k the Boston Braves back to Beason Street, 8 to 3 (page 293).

With darkness I returned to the roof high above the bomotoph. Myriad lights of Man intenant and Brooklyn nerged like the traffic on bridges between them and made two cities one.

An ensurely breeze couled the August eventing. It some led fresh as a Montank mean w. Had it, I wondered, rustled the vines against a weathered cottage in East Hampton, or filled the salls of a windmall somewhere in Suffolk?

I felt the breath of a new Long Islandgrowing home of marraning millions.



Name of the state of the state

Once This Rock hard Package Swinn, Atc. and Quacked

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Peacetal Atoms freadure Corn

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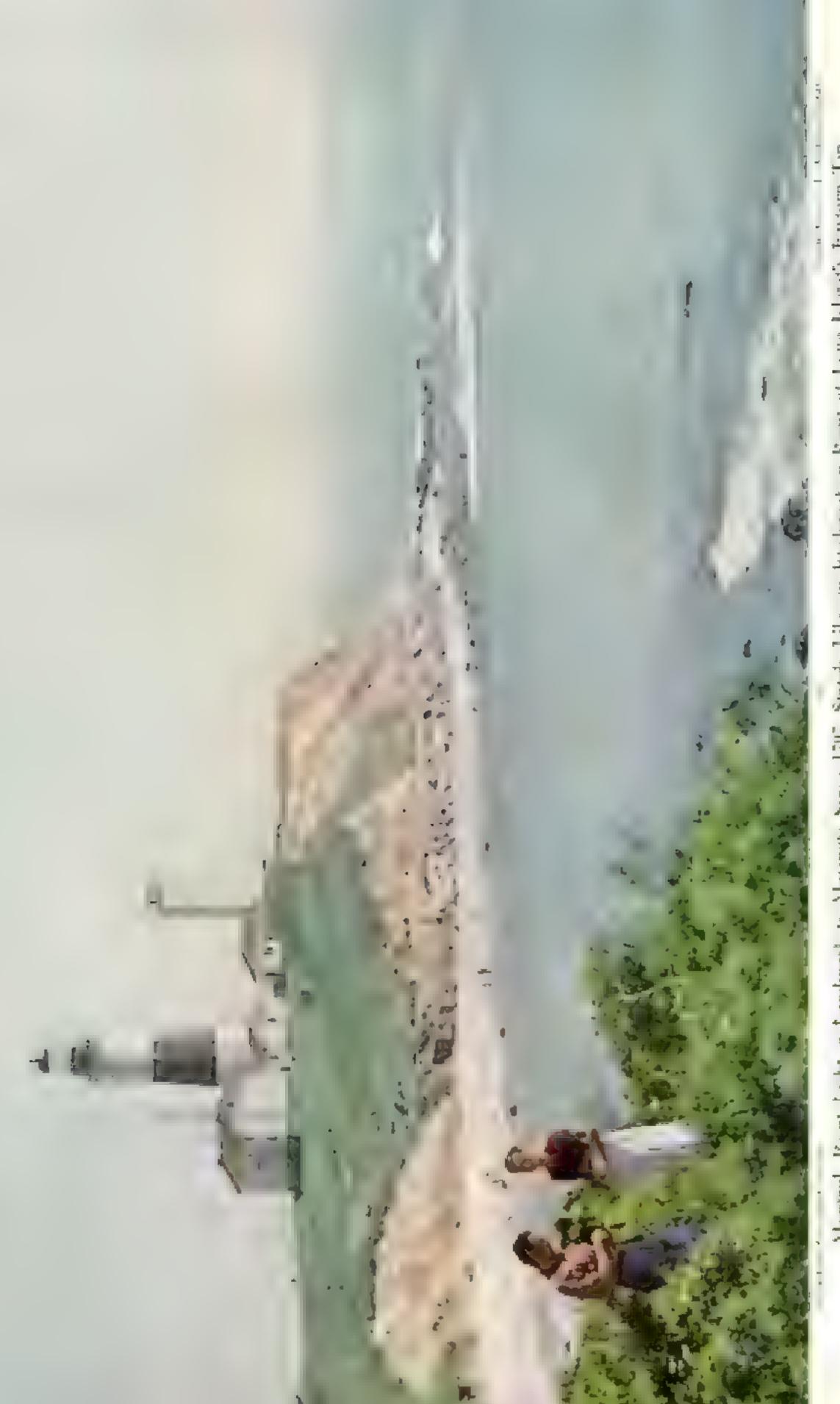
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Sig Harber in Peri a Dress Henors La Whalers Who Boat Its Search Mansions

Yankee Roams the Orient

BY IRVING AND ELECTA JOHNSON

NE pleasant part of a l'aukez wort.

craise is sailing away from the world's
tembles. We il scontinue the newspapers, shut off the radio. Does the cold war
teach zero? We do not know for days on end.

On our 96-foot ship we come to know each other as only families do. We shoose our omateur sallors not for experience but for companionship. Their personalities must be capable of barmonizing in close quarters.

Like the persery thyrog's old woman and her many children who lived in a slive, we are one big family, boys in the main cabin, gals in the two double tables, and the Jamesons in the skipper's cabin across the stern.

Masts Serve as Exhaust Tubes

Vanker, a former North Sea pilot schooner, con bines size, comfort, salling ability, and strength a marvelous ship for our purposes. Riggerl as a brigantine, she threes square sads on the foremast, fore-and-aft sids on the mainmast, and staysails between the masts. When we have set 7,775 square feet of carranant nylon, Funker is a noble sight (pages 335, 365, 365).

For strength and durability, the yacht's hall is steel. Her lower musts are bollow steel. One of these tubes serves as an exhaust out let fur her Diesel engines, the other as a chimney for the oil-burning galley range. This arrangement keeps the smells, smoke, and noise clear of the deck.

Meals are served on the main cabin's halancing table, which centains horizontal no matter how the ship role. We salled 45,000 miles around the world on one set of dishes (p. 328).

the work and expresse of the cruise, devoted 16 leisurely menths to a trip that steamers make in four (map, pages 340-351).

Fourth Voyage Abourd a Yanker

We Johnsons—Irving, the skipper, and Electa, his wife—were making our fourth world voyage abouted a ship named Yankee. With as was our 12-year-old son, Arthur, who climbed the old schooner Vankee's rigging when he was 22 months tid.

Our mates were Stephen Johnson Irving's nephew; Jack Braidwood, and Frank Fower. Charles Bothumley was the ship's doctor; and Donald Crawford, the only paid hand, was the

Our sea nen, mostly lows just Leyond highschool age, included Jack Trevett, john Wright, Peter Sutton, Rangel Campbell, Richard Bartow, James Wells, Alan Pierce, Eric Wolman, Raymand Modler, and Ecward Douglas.

Girls, who painted, scrubbed, and took their turn at the wheel, were Mary Booth, Louise Stewart, Mildred Young, and Terry Glenn. They were a little oblir than the boys.

Nuch, 1948, we left Bonolulu, which we described to readers of the National Gro-Graphic Magazine in the Jamesry, 1949, issue

Right now after a long, quiet stretch on the Pacific, we could sense the crew's dreaming of country-club dances, porterhouse steaks, and other handlubber brancies. They crassiexcurrent, and Malekula, New Hebroles was just the island to provide it.

We Learn About the Big Nambas

Malekula is the home of the undefeated, uncivilized men of Melanesia. The Big Nambas, who should in stockarted villages beyond teach of missionaties, labor recruiters, and tax codectors. Until a few years ago they had a reputation for murder and canadation (page 341).

Big Nambas owe their tribal name to a peculiar item of dress. Below their ther belts the men wear an enormous and extraordinary bank of maroon-dved grass which, with charity, might be called a foincloth. This balky wrat per is the nambas. Other tribesmen, the Small Nambas, substitute a mere twist of banana leaf.

During the war flag Nambas were known by reputation only, to 300,000 servicemen stationed at or passing through Espirit. Santo the big American base in the New Hebrides." A few Yanks there acquired as souvenirs the big Nambas' bracelets made from circular tasks of hogs.

We learned more about these tusks from a French planter who visited Funker in Oleman Bay, Matekala.

Wives Nurse Pigs with Circular Tusks

"Figs," he said over the cottee cups, "mean everything to these people, not for peok but for prestage. And it is not thoroughbred page that count, but these with circular tusks. The owner of such tasks, like the presenter of a million dollars, rock to a high social plateau.

*See, In the Namewak Geometric Manager.

'Princing History in the Point of by Lt William I.
Draper, October, 1944; "Pa ms and Plane's in the New Helmides," by Maj Robert D. Heind, Jr., August, 1944.



Sailors Pound Tossing Typewriters with Arms Resembling Proying Months Lags

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Moreon to the mentions out to look some in a sign of the encount floor but to present a they work hope or work to septime at a self-section. That was all.

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and the We could come back, the near

We kept the date. Sixteen of 1- of 1the need by five pative carrier to a constant
the last the affect of the aff

Dancers Make Up in Orange and Black

We ventured into the value, taking rate to keep on the fringe of things, and wandered



Harriston to Grancester: the Second II it of Fank its I district World Voyage

Commercial crarse at its confering globe on fone months of darker, thicking it took wire, does it in 18. Her draw it, and the control a Mulity princess.

into a jungle glade. There is dancers, like actors behind stage, were thaking themselves out. Two nucke-up artists worked on each participater.

Already torown bodies had been painted pitch black from the waist up. Now a control orange was applied from the belt diwo. hear-poor rattles were attached to nokles and colored tassels to belts. Fans of leaves were tucked under belts to simulate tail feathers.

Finally, enormous feathered head-fresess were attached by wooden skewers thrust up through wiry burn. Each dancer leaped high into the air to test the stability of his 4-foot bonnet. A thousand feathers shivered

Room! boom! bound. The tomst me were sounding. Somy-four dancers, advancing out of the jungle, lined up beneath the yam posts in four columns. Half black, ball orange, they towered 10 feet in their high shakes.

With ballettice precision the men started lancing. Columns of fours became a agle files and squares turned into circles, but the incredible spectacle never stepped for a monunt. With each step 64,000 feathers shook, 128 ankle cast nots ratt ed. and 64 talk syaved.

Meanwhile, women in marroon headdresses occupied the sidelines. They same hack like seawer in a current whenever the men crew near. Their cringing, we learned a w, was just a form of politeness, like our how.

As darkness set in, we returned to the unfinished house for a campfire supper, but the dancers took on intermission. Herie benfires by their dancing ground; frums heat builtre than ever.

such a savage day filled the air that we broud to rentate back. Our five mission boys, equally cautious, crouched beside the campaige.

We stretched out on piles of coronat fronds, but the unineas tom-toms permassed only fit-ind slumber.

At times we awoke to the light of turches bome past our shelter. Occasionally a torch-bearer peered into the hut and, as we had our breath and said our prayers, quietly went away.

A Black Gublin Counts Us Off.

One, show any figure ventured in. We watched the children pretending to be asteep as out visitor, tarch held low, made his way from one recumbent figure to another, like a warden counting prisoners in a ceb block. No one dated say a word, but Irving, who was going to reset if necessary, grasped his beavy lashlight as a tital and prepared to sell our lives dearly. Finally satisfied, the inspector departed,

Daybreak halted the dance and stilled the drums Spirits recovered, we awaited the sacrifice of pigs. No such ceremony was given

Instead, the coconnits and yams were distributed as pilts. Burly war or, and a college hous after a fortiall victors, are a 200 yam sticks from the ground like goal posts (page 3d3). They distributed the presents and savage vills

At this interesting moment something—perhaps it was the sight of human skulls on ath kaour crew was trading for adarmed our nuisirn boys. "Master, nuster," they picaded anore heters we go along salt water. No good here any mote."

We took a last look at shouting mob and falling yam posts and attempted a posts good live. Our hosts ignored us completely—a



The Bright he Sady Whate Advensure Recounts; She Many Over he Benton Halls

Thereig a 45 Martin de ca vaga gallars barriers I tal accounter peacls and inspected Cocos Islands' celluloid money. They wanted St. Halvan, scene of Napoleon's care, and Devil's Island, whose freed contacts for lower.

breach of manners which all of us were happy in overlook

While deep in Melanesia we turned our attention to two Folynesian outposts planted nearly a thousand miles west of their kind, possibly by canne wrecks long ago.

On Tikepan, which has north of the New Hebrides, Yanker was welcomed by swarms of of friggers (pages 536-539). Beneath streamng manes red dyed with lime, the cancomes reminded as of the savage Polymesans of the woodcuts Illustrating the books of oid-time Pacific explorers. Just such mobs besieged Captain Coak's ships.

Mead to let the men on board, we traded fishbooks and knives over the side for mats. fans, bowls, morel cannes, tapa clutt, and

tattoping instruments

Chief's "Belly Belong Me Full Up"

the Stewart Islands, the second Polyngsian outpost, we found women draped in sammebbe garments. Util wives tacke I these high under the arms, to t girls started the * neckline" around the hips (page 353). Some were a lab-and-coll in which, when they damied, bubbed up and down, concealing relate.

1 - "sland's chief took kinch abourd l'anter. Mamiestly lath starved, for food is not plentiful on these low islands, he gorged on beef stew until he arise and also unced, almost painfully, "My word, belly belong me

full up ("

In the Solomans, Fanker sailed hato the Slot to no ancharage off Guarothernal (page 449). Four Alled croisers suck in a sing s alght in 1942 lay almost beneath our keek. We toured Renderson Fill and Edson's

Ridge, where the Marines toute history. Itving blone among us was able to picture the jungle-grown battlefields as they were, for he had charted these environs with a Navy SHIVEY ITEMA

On right Funker fe t her way into Bliedi Fig. a Florida Island, and fiel up to shore with her yards sticking in the trees (page 352). There we discovered a wartithe pipelitic warch

used to carry water from the bids.

Now if there is any laxury which our crew truly appreciates, it is a superabundance of fresh water. Tander carries 4,000 gullins. enough to satisfy theest but not loundry or both. We somb a trackes in waterfalls, rivers. and rain squalls. On vivits astore we beg laths from newly more friends. We have strilled the both situation of around the worh! (page 339).

The pipeline, naturally, was a delight. We flushed cut the rusty water and turned on the pap full blast. For an afternoon we revoled in a clear, cold stream. We washed the thes and have them on deck until Jankes looked

Like a laundry yard.

Native Scavengers Hunt War Supplies with Zest

Many Solumon islanders, we observed, were engaged in a treasure bont, nut for pirate gold. Lui for war's leftover supplies.

Siane these goods could not be transjouted home economically, could not be soul, and could not be given away lawfully, they had to be costroved. Refesierators and canned

 See the state National Devices of Manager pint, July, 104, and "At he in his and head" by Brederick Simports Jr., Jahren



Schehorazade, a Sultan's Daughter, Performs a Terrate Island Dance

Parties from man addred the Muley princes, what spoke English and drove a jerg. She took the lies of fourties her palace, then, in dia as belief, joined them inspecting he sea ther's road we into laid. Some because name comes right out at the trobone Nights, but she protected to be cally a Kinny (pairs 324).

drives of dark ears.

Natives have dug up barrels of vil and the of Countries. One chief which his villagion telephone service; another got electric lighting for a while from a g tsol ne general in

Emped off to a gasoline cache, we used 't in our cutboards the rest of the voy or

Warti be's free spending is still felt in the bulomas. Youks who paid \$5 for a gas-skirt left plenty of money but nothing to be. We met matives, wallets hulging with bushin begged its to sell shirts, shorts, and the set.

Since the war, natives have on the foreigns belief that an American bitcher coming in a frage ship or plane. Labor savur of the copie ted and the expected and the copies ted and the co

Is become a laguous. At his layer met an islander who, hosking to the exactly three were and the land a layer how to welcome it (pages 300 3-1).

Some of the istant the lagoon are taken to women, who can't even came past them out a certain side

Northwestward now l'ankee set sall for Raffaul, New Britain, to see what was lett of the "most homoed spot in the Pacific often that every building was stattered and 205 ships and latering crift were sunk in the arrived drg nearly 300 miles of deep lulished timatels. Into them they dragged themselve will approach the arrived dragged themselve.

We visite the soul which used American calculates for many to Unidiren was to have the later one phoded bells about

African sit is hear to a to be to an interest for hear I have be a situated at the form of the first and in the second of the se

In It is a low were challenged to a most a low they found themselves play
they found themselves play
the low the most an all-Chinese a section. They have they their sea low they standard into classic.

We Trude Tobacca for Pearls

The Trabeland felands famous for pearls were our rest stop. We harmoned over the mil until we collected 135 lustrons genes, the



Mikes als Wild Men Tresh from a Nealthna Read, Ringsland Yams In a Basis

best of which cost Jack Trevett a paltry \$3. Virginia stak tolupoco, of which we carried

a case, proved a powerful trading currency. Sunkers rolled it into eigarettes, using news-

paper wrap, ers.

scarcely able to believe that old newspapers were valuable, we ranged lockers for copies and traded sheets and even quarter-sheets for use as cigarette paper. Newsprint did not kny pearls, but at did examined curios such as actel-nut spatulas.

Picking up a fair wind, Fanker flew along the north New Guinea coast to Madang (page

3561.

At Wewak, between M islang one Hellandia, we saw the rains of 350 Japanese planes destroyed by an American low-level rank. One Zero, sitting in the administrator's pigpen, shaded his logs with its wings. On rainy days the whole lot took sarlier in the cubin by entering a shell hale in the plane's side.

We salled into Hollandia, Netherlands New Guinea, one widnight on us, was so amazed to see a sading ship that he came aboard. He was more astonished at finding a woman at the wheel and mother's goal og to the engine room. Out visitor was convinced that formules ran the entire ship until he heard a masculine voice up forward singing out, "Hard apart! Back full."

Dutch Enjoy War's Leftover Comforts

Thousands of Americans have passed through Hollandia, which was General Mac-Arthur's springhoard for the attack on the Philippines. Here as elsewhere the Yanks left

mountains of equipment.

Thrifty Dutchmen, having bought this material, convert every profitable item into cash. They make themselves comfortable in Quanact mets; they enjoy hundreds of miles of American-but it reads. MacArthur's im Lion-dollar headquarters, moved from its site on Lake Sentani, serves as the Dutch Residency.

on Brak Island, another war base, we took an air toor above a warplane graveyard. On the field sat a thousand four motor bombers From the air they appeared to be in perfect endicion, but a buildozer had broken their backs to prevent idegal use (page 345).

Stones City Sue, Light Hall, Oksehome Rose, and Il'ho Datt. The planes' names revealed the spirit of their gallant crews. Painted rows of bom as talked their scores. One had 136

messaltis

Now we were getting away from the South Seas and entering the Orient. Somewhen between New Galera and Borneo and south of the Philippines, we were to trues Walace's line, parent for Alfred Russel Wadare, codiscoverer with Darwin of the origin of species. This invisit he has divides Australian-type faunt, such as kangaroos, from Oriental beasts like tigers, elephants, orangutans, and thinos. Some channels only a few miles wire reparate these divergencies, which reflect the cleavage between Asiatic and Australian land masses.

We could have drawn a similar line to decide our cruise into its South Seas and Oriental

phases

Crew Courts a Maley Princess

When we anchored off Ternate, one of the Molucous, we were definitely at the threshold of the East. Proof positive was Scaeberawade ther real name). Mostern-Malay damatics of a Sultan. As her father was away, the princess undertook to be our nestess (page 532)

to be bettered and spoke to the n in langish acquired as a vert relagee in Australia.

Romy's cuts Western ways intrigued the crew. The boys plagued her with questions "Can you marry anybody you wish? Does he have to be a Mohammedan? Why don't

you come to the United States?"

We overheard Jack Trevett saying, "Gosh I the fellows back be me could hear me calling

* * * * anivess,* they dislike!**

V.-r ng the ship, Rinny reveled in our phonograph records and she thrilled the crew with her own singing.

Rinny Goes Diving in a Helmet

In her father's palace, a half-timbered structure, Rusny put asine her Western ways and became the Malacy princess of batik sareng, embroidered as a packet, as I cought a dhumon t earnings. She presided over a retinue of servacts,

Our hosters showed as the palace treasures—curved swords in solver scabbards, anrique pastols and ballet molds, and showing belongs with bird-of-paradise plumes, many of them relies from the 16th-century Fortuguese occupation.

Our farewell day in Terante found the Sultan's daughter down under Fanker's keel in dangarees, navy shirt, and diving belinet. The boys were showing her the wonders of a coral formation.

It was time to go.

Her pretty hair still wet from the dive, Rinny jumped i to ber jeep and doose away.



(B be-circling I maker a Crew Sers the Tappallum, Sul 11 Clarch Indian Ocean Frades



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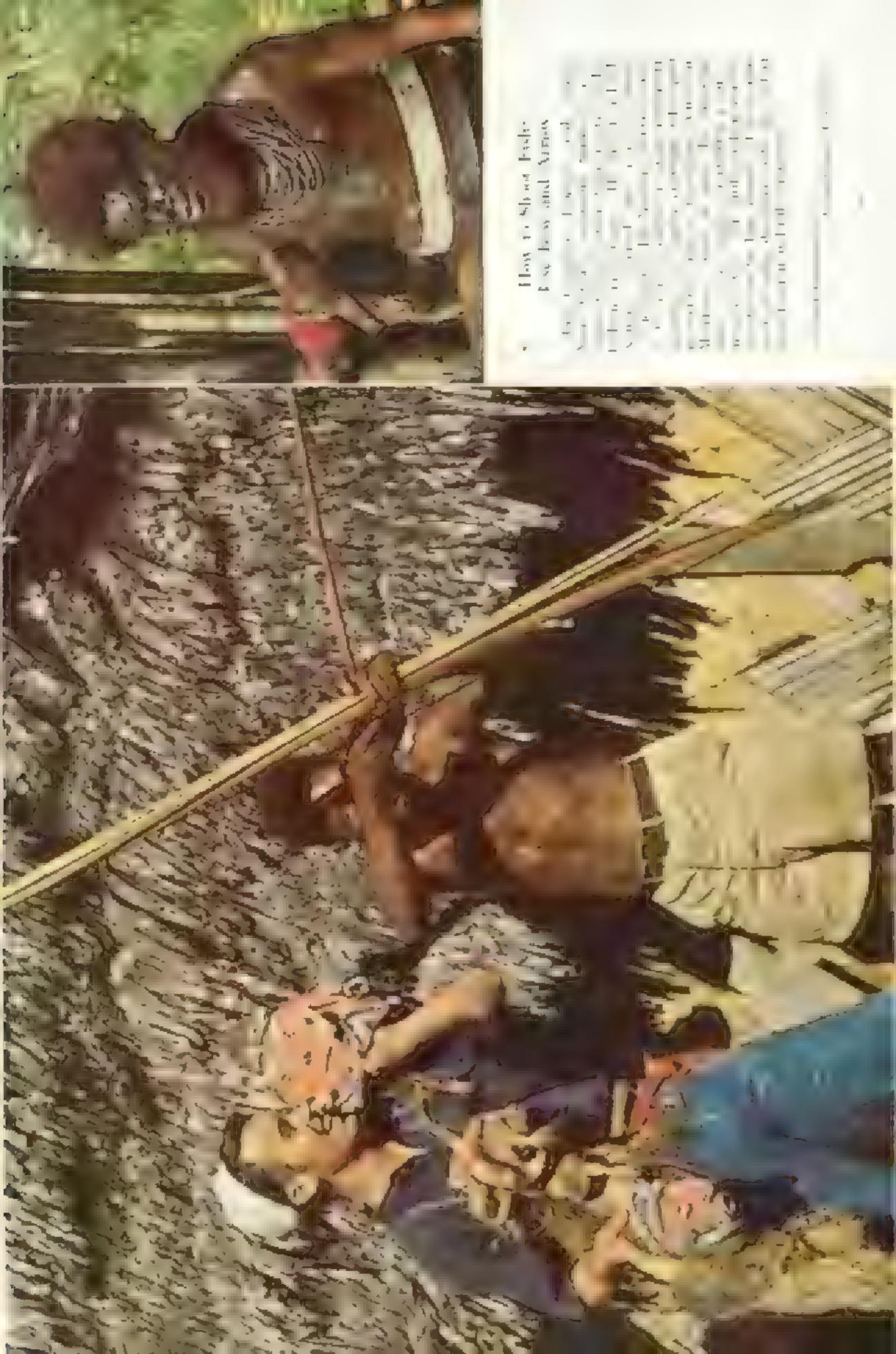
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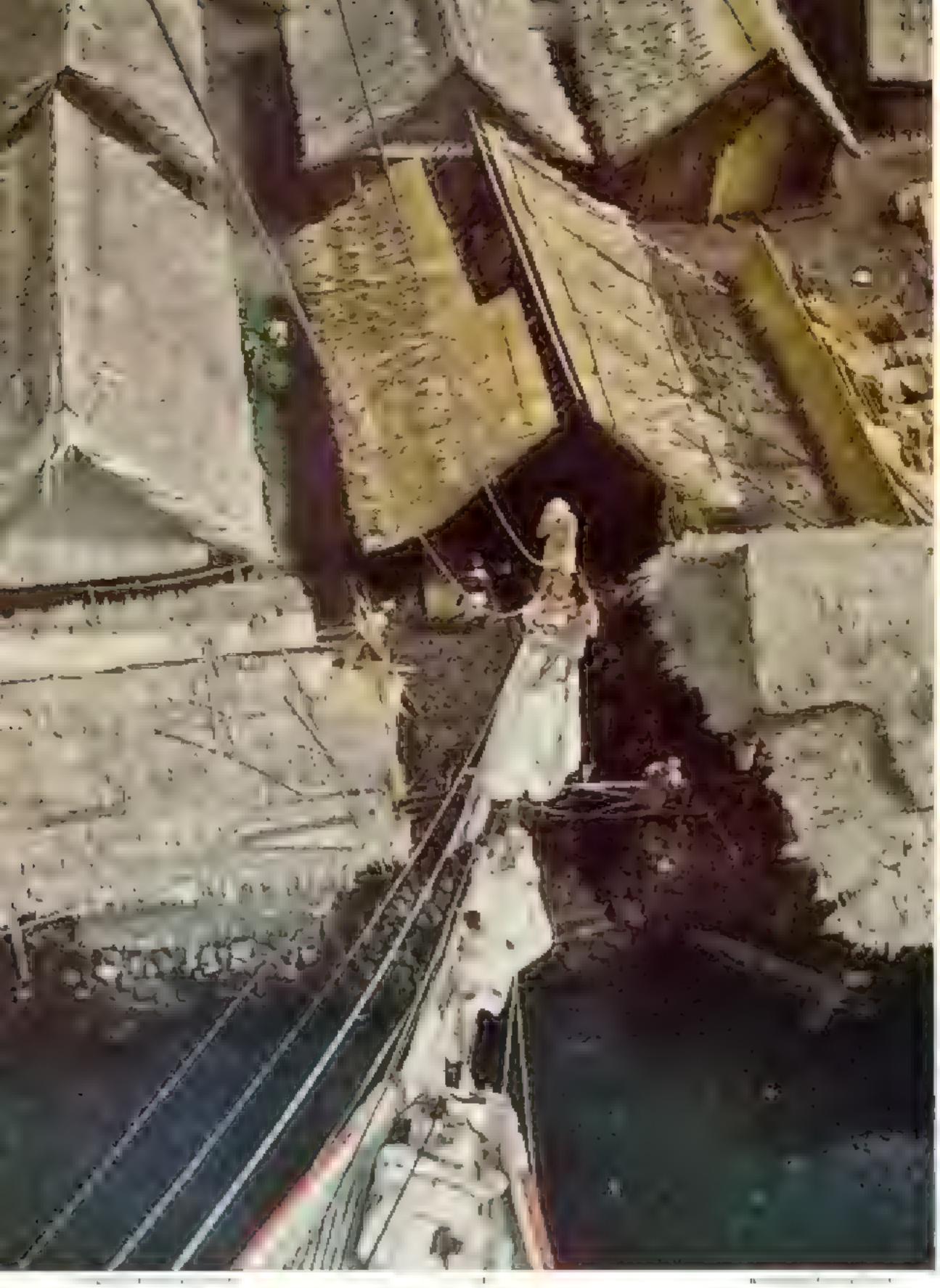
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From the Wing Languiser, Water From, Sacks Her Sea, into a Thinkhed Village are a set of the first terms of

As Tanker presed the palace, we saw her, a lonely little figure, waving good-tye from the latter.

At Pierce waved an ensign, Frank Power swang a bright Tabitian parea and Petr Sutton blew the ship's born.

"Good-bye, Princess; good-bye, Rinny," we

all cried.

Acthor, the Reluctant Scholar

Another parting awaited us to the I bllippines. The time had come for Arthur, our eldest son, then 12 years old, to go back to school in the United States.

It had been a wonserful year for Arthur, who enjoyed every bit of the ship. He spent hours decorating his bank, but deserted it at

the slightest excuse to sleep on deck.

have ready to investigate any island, Arthur peered into every but. Dealing in micrors and five-and-ten jewelry, he excelled us all in truding. He neglected no opportunity to collect

stamps of sea shells.

One dark cloud obscured Arthur's summy days; that was school in the after caulo, with his mother for a teacher. Arthur, who was doing a sixth grade correspondence course, never crossed to think of schoolwork as double-ery. We can hear him now, pacing the cabin and muttering, "I wish I was free,"

School at sea, watalk h to port that was

the suite

In Davao, Arthur managed a brove deportore, but a pas-sport picture taken in Manda showed a downcast boy, a far deferent fellow trom Young's pager diver and explorer.

Robert Joins Up

With his mether at his side, Arthur watched the liner President Mouroe bring in his gran lime ther, who was to take lain home. The first passenger off the gaupplank was 9-year-old Kohert, Arthur's brother, who was to sail with

us the rest of the voyage (page 348).

If it was a job for us to divide the world up between our two boys, it was a matter of confusion to the immigration authorities who had to effect the exchange of the children. Plainly, the problem staggered them. In the immigration Office the boys, who hook alike to strangers anyway, got restless, changed places, and buffled the authorities still more. It is a wonder they let us go.

Arthur, carrying a pair of water-buffalohome, wistfully moved asoard the liner. Robert and his mother joined the brigantine

in Zamboanga

Fanker gave us a weird passage peross the bar into Bungkok, Thailand. Though Irving followed the navigation ranges at the mouth of the muddy Chao Phraya River, which winds into the city, the ship struck a bar where nonshould have been. Observing small boots sailing across the chart's "shoals," the skipper followed them and found deep water.

Bungkok Foscinates the Crew

Obviously the channel but changed, but Thuiland pilots, not wishing to make navigation easy, had declined to buoy the course.

hankee berthed a delightful, fascioating

two weeks in blangkak.*

the muckly Chao I hraya swarmed with punks, lighters, sampans, and river steamers (pune \$50). We never tired of watching them scarry by like pedestrians. Once we counted to harges towed by one steamer. Restrumnts drink stants, and school buses were all lattle sampans.

A tour of the main canal revealed an amphibious community where houses built over the water used samplans as doorsteps

thousant is of little places combined shops with homes. Living quarters were in the rear, but habies, swinging in net crailles, always seemed to be up front.

Crossdile Leather and Live Bards

We inspected aloth, silver, crocodile leather, books, paper lanterns, and live birds. From stalls offered bright tangerines, profielos, but tames, mountain apples, durians and other exotic fruits, fish, and hunks of red meat.

Food was cooking everywhere. Fried pancakes appenied to our appetites, but who knew

what germs they barbried?

While the rest of the crew journeyed to ludochina to see Angkor, the Johnsons entrained for northern Thailand to watch elephants at work in a teak forest. The sight of them pushing logs into a river with their tusks "elephants a paint teak in the studge, equally creek"—was enough to delatit port or photographer.

We intended to take an elephant ride, but these beasts would not cooperate with strange white people. They regarded us, we thought,

with downright hestality

A small Sigmeso boy, we learned, is always safe with the family eleph ont. Usually the animal outlives his master and gies to work for the son

After a brief stop in Singapore we visited the Island of Rangka to witness the mining of tin from a diked-off area in the open sea.

*See, in the Namewal, Concrete of Macastrop Semishation Sum " February, 1967, and " Land of the Free" in Asia " May 1964, both by W. Robert Moure





A PEC L 4 The use of Weart Warbirds Chamble More of State



Zanzibart a Maze of Narrow Chastas

in Bangka Strait we had a narrow escape from a wronk portunately it was a mountal night, and 10ck Bartow, alert at the wheel, spotted two lug masts sticking 30 feet out of the water. He swang Fanker tround just in the

Small Loss Found in Butil's Charm

Include, too, we found small iss in Balt's charm as a result of the Japanese occupation."

Only one of the way was wall apparent: the give water war include the form more clothes. One is an increase made by the heap that we moved but the test botels: a dollar a day wered norm and meat

The line we made trips in the bond new friends overywhere. Jack Tread to with a Britisher and ellephed Agains of Peak of Rule, a 19,000-font volcano dominating the island Robert spent two weeks with a danshore and even visited is large print. The Halfman we're on a integer artist posed for us in events to me a led scrongs (page 362).

We suspect that Robert neglected supposed's regular hours for we saw time late one uight at an extraordinary monkey dance. One handred and fifty has perferming around an or free swaved in tribot of intered chippering mankey and of

On other nights we watched curious trance riances in which your grains performed like hypnoticed Trillips. We had a mentioned time photographing to the dances (pages 300 miles)

Lessing south of Sumatra Land found a strong fair nated on Les way to the Cotos, or



Truje Hierark I are three Mandairs I is a Deck for a Barrie No.21 Beneath the Stars The rate of the state of the st and the transfer that the second is the form I The tell of tell of the tell of the tell of the tell of tell of

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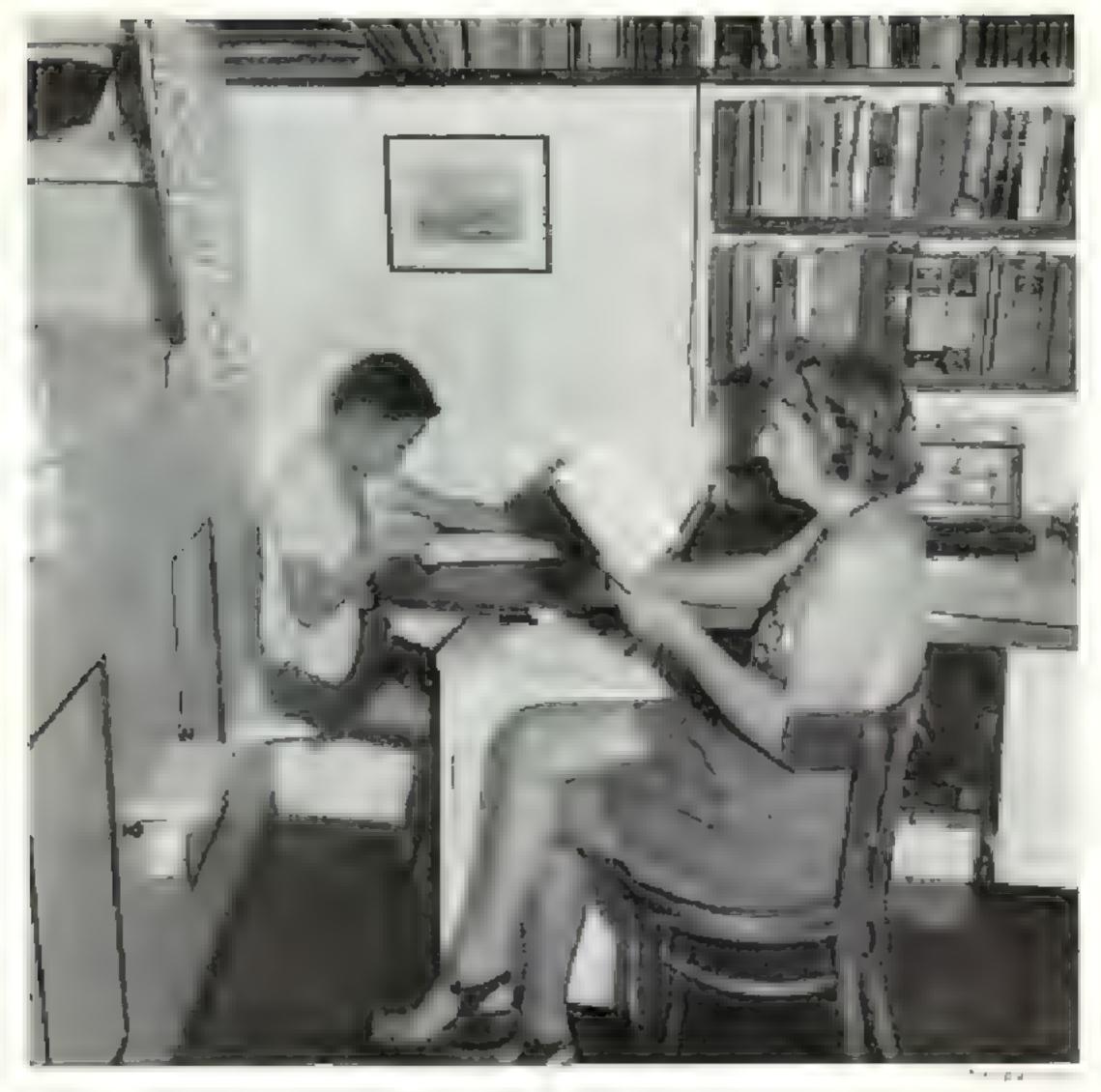
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"Gosh, Morn, This Old 'Rubinate Is No Pur!" Robert Takes a Dim View of School

hours format and made and containing four interest of the level storage because the first order and the When we returned to the long terms of the second of the level to the level of the l

TOTAL THE STATE OF THE OF THE

Aprelia showed the latest land of the late. 26 veried? John Clumes Ross Aon in English motive and product of Late education. He was away from the

Classes Merge by Mace of Chillippink

We wondered whether the Islands or the mit
on the sould claim, John's interest, Me

on by the Research holdings on phosphate-rich

Christmas Island, also an early family settlement, had been said. Now there was talk
of settling the 1,800 Malays on horned and

nerching was what the perfect History and the Maluve with the

s resort to the Mills - 2, real to the sequenters son of having one of the set opposite communities we have ever an infinite left to the sequenters of the first terms of the sequenters of the

Between Corns and Zanzibar, our next state by 25 days of saiding across the transitional function building these delightful accepted days we devoted to writing a line of the final income and any lin



7,

A Battered Hulle Seems Poised to Slip Beneath the Waves: Guadalennal

Tilling the start transfer of a property of the start and the start and



Robert Presides Over a Swirt and Party in Landaces 14 Last Dates

The property of the second of the first terms of th

half our may book, Fonker's Wander World.

Robert was the desappointed one. He wanted a cyclone, and all he got was 25 consecutive school days. Robert loved school to more than Arthur. He demonstrated enthusiasm for shiphound crafts but dislike for fifth grade books. Reproached for this attitude, the hoy explained what he called "the difference between learning and teaching,"

"If it is someth ng you want to know," said he, "It's learning. But if you don't want it,

or a fear hing "

Zanzibar's Strange Sights

Bright monolight flooded white Arab buildings as we arrived at our African destination one morning at 2 a. m. The island was Zautzibat, clove plantation, ivory emporium, and

former slave market (page 344).

The clave trees were suffering from a hlight called "sudden death." Some elephant foorwwas still coming in from the mainkand: We saw curring tusks carried on naked black shoulders. Trading in human flesh was no more, but old barred windows suggested the perils of slave times, and some houses were considered hearsted because slaves had been scaled alive in their reasonry.

Our lines, exploring the town, wandered into alkeys so narrow that they could touch buildings on either side (page 346). They quickly not best among the curving streets. There did not seem to be a right angle in all Zanzibar. It was useless to ask directions; no resident

could point out a straight line

By that of wandering we eventually franch the basant, where we bought fresh provisions for the ship. The fish market offered shark, sailfish, eel, barracterd, skate, and albucore. Dealers sharpened knives taken sharp, flourlebed them, and levited us to buy. Cats slank around corners; stray gouts pawer, the pavement.

Lorters with hage loads mouted for passageway through the shopping moly bearded Arabs, curved daggers at their walsts, stroke by in long white robes belted with the Tall Indunes walked in Nehru-style tanics and trousers. Africans in rags and tatters loped pasts others bousted full white nightshirts.

Christman Turkey from un Oriental Bazzar

Swittelli women were teds, oranges, and Harks Moslem Lather veiled themselves in baggy black until only their eyes, peopling out of cloth rages, were visible.

barber and customer sat cross-legged on the ground, one shaving the other. Tailors worked in capicles just large enough for manand sewing machine. Among these Oriental surroundings, Just about as far from America as it was possed to get, we bought our Christmas turkey.

The second Christmas of our voyage was celebrated between Macagascar and the African mainland. Pete Sutton led the singing of carols. The girls distributed presents to everyous on a on board. Our Zanzibar turkey a tender bird, turned up for dinner on Fauker's balancing table.

We were rounding the Cape of Good Hope when a southwester of almost harricane force tested the Fankes as neither she nor her predecessor, the schooner Fankes, had been tested

on our four world voyages.

We doused all but two tiny sails, but these beeled the brigantine over until her be bulwarks dipped into the sea. The wind's pressure on the main staysail's solid-steel traveler beet that (westech roal six inches on, of true

(pages 329, 356, 370).

Lunse happer on their was set awash. Helow, Steve Johnson was tossed out of his bunk. He picked hanself off the cabin floor and went took to sleep. On awakening he had no memory of the tumble and refused to believe his shapmates autil bruises confirmed their story.

Robert, wide awake in his bank at the height of the storm, asked. "What sails are set?" Upon learning, he whomped, "If many, only two". Clad in oilskins, he spent the fest of the night on deck. He loved every bit of the storm, and not only because it meant no school.

l'antice, grandly proving her seaworthiness, mile every mount tinues sea. Most of the time let reck was dry, and it was never necessary to short the two companionways. Our amateur rew, test sailors naw, their every emergency, and they stowed away three meals a day.

Cape Town Recognizes Us from Pictures

It was mining when we put into Cape Town lamouty 22, and that evening, as we danced in evening clothes, the patter of ramatique on windows mingled with the strains of soft music, a medley more comforting than the screech of wind through the rigging

I'm gressive South Africa seemed a for like home." The clarate, when it was not raining, was Californian, Stores were full of American goods. The people were extremely hospitable.

Every day Cape Towners came aboard inviting us to sample home cooking or take tours.

*See in the National Georgesian Statement of the Cold and Dammids B. Ht." Describer, Pet2; and "Busy Corner—the Cape of Good Hope." August, 1942, both Ly W. Kaliert Moore



Take a Gotton, Spine, a Thomasical Fample Source 800 Feet Above Maprik, New Gianca for a make each damped to the option of the option of the contract of the first and the contract of the con



Landar Ties Up to Frees on Floresa Island. Bess on the Yorks Could Pick Press.

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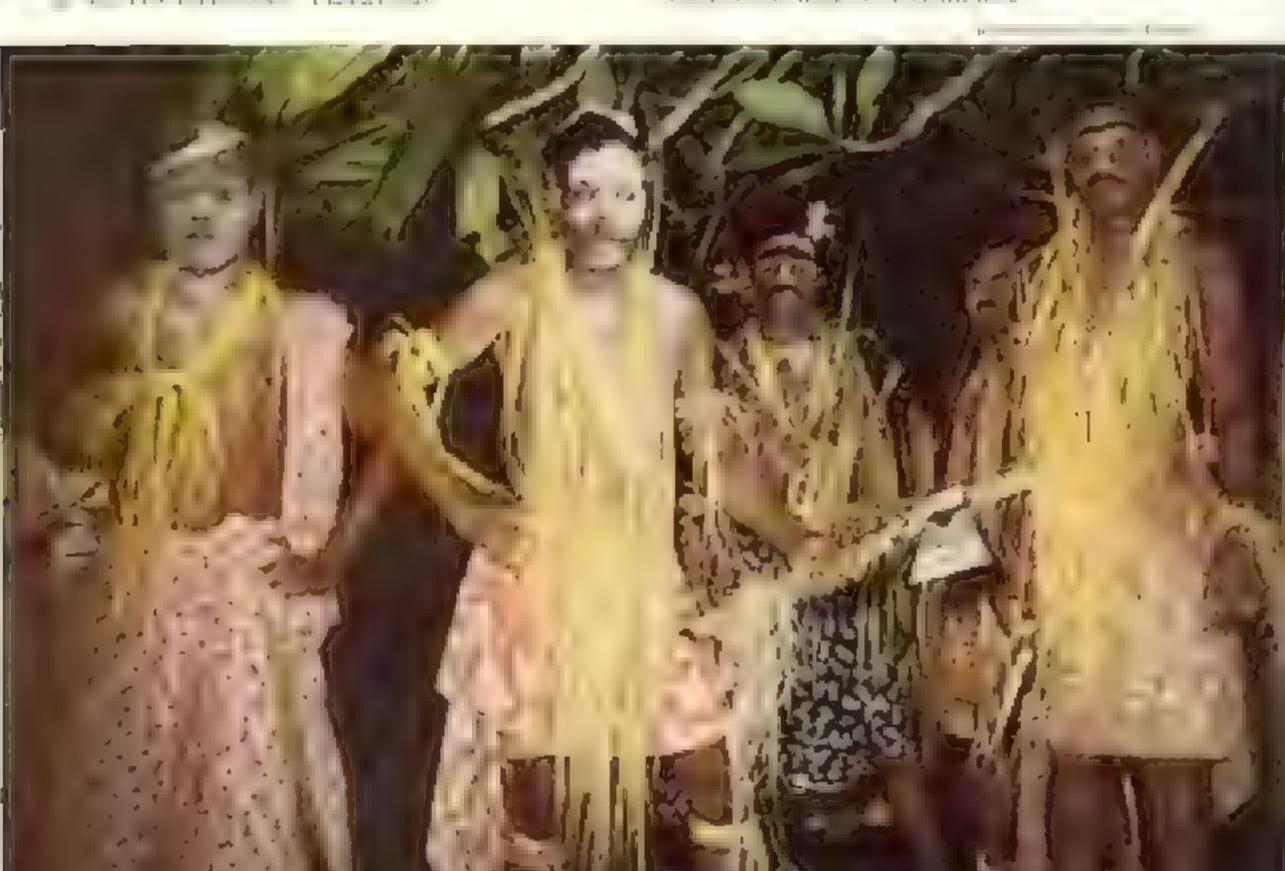


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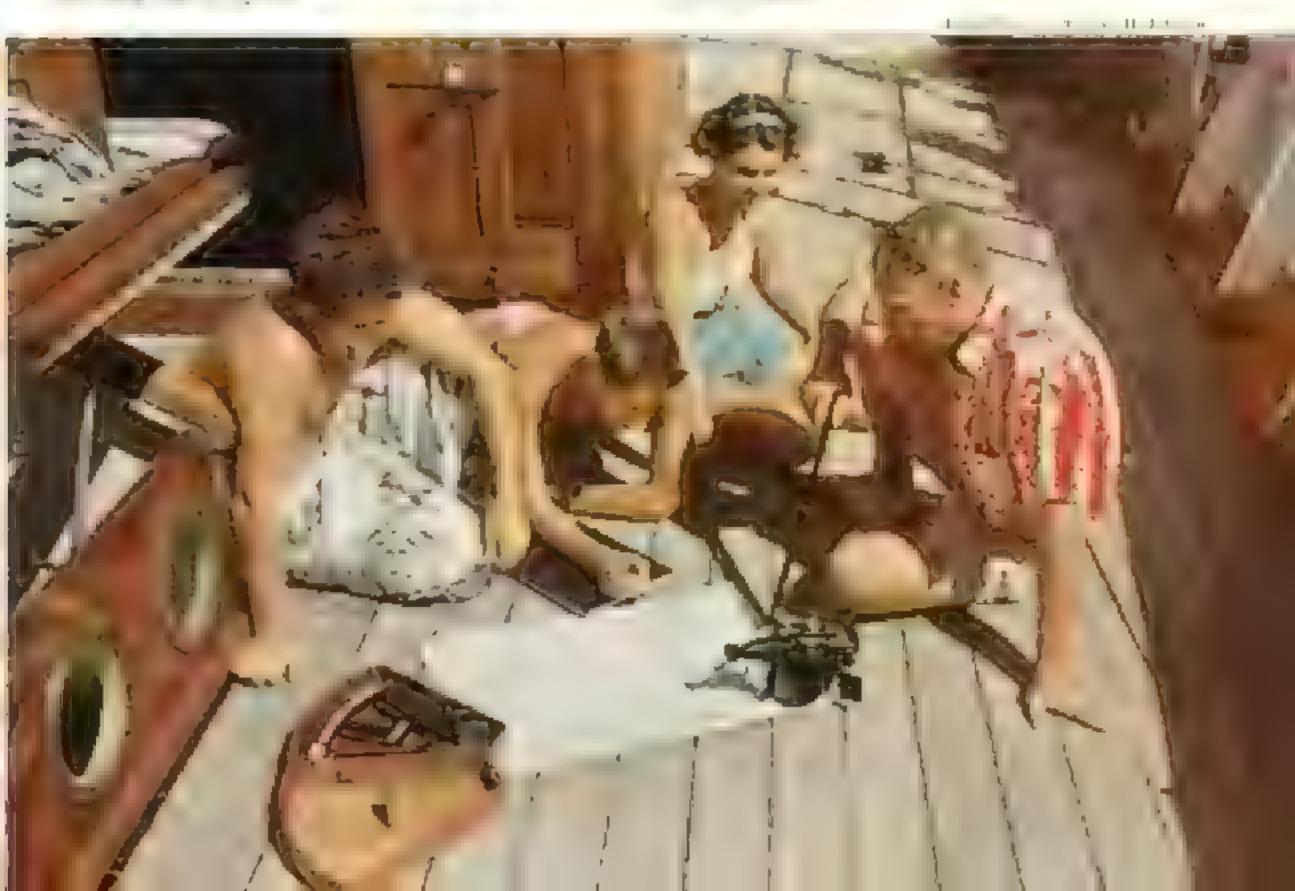


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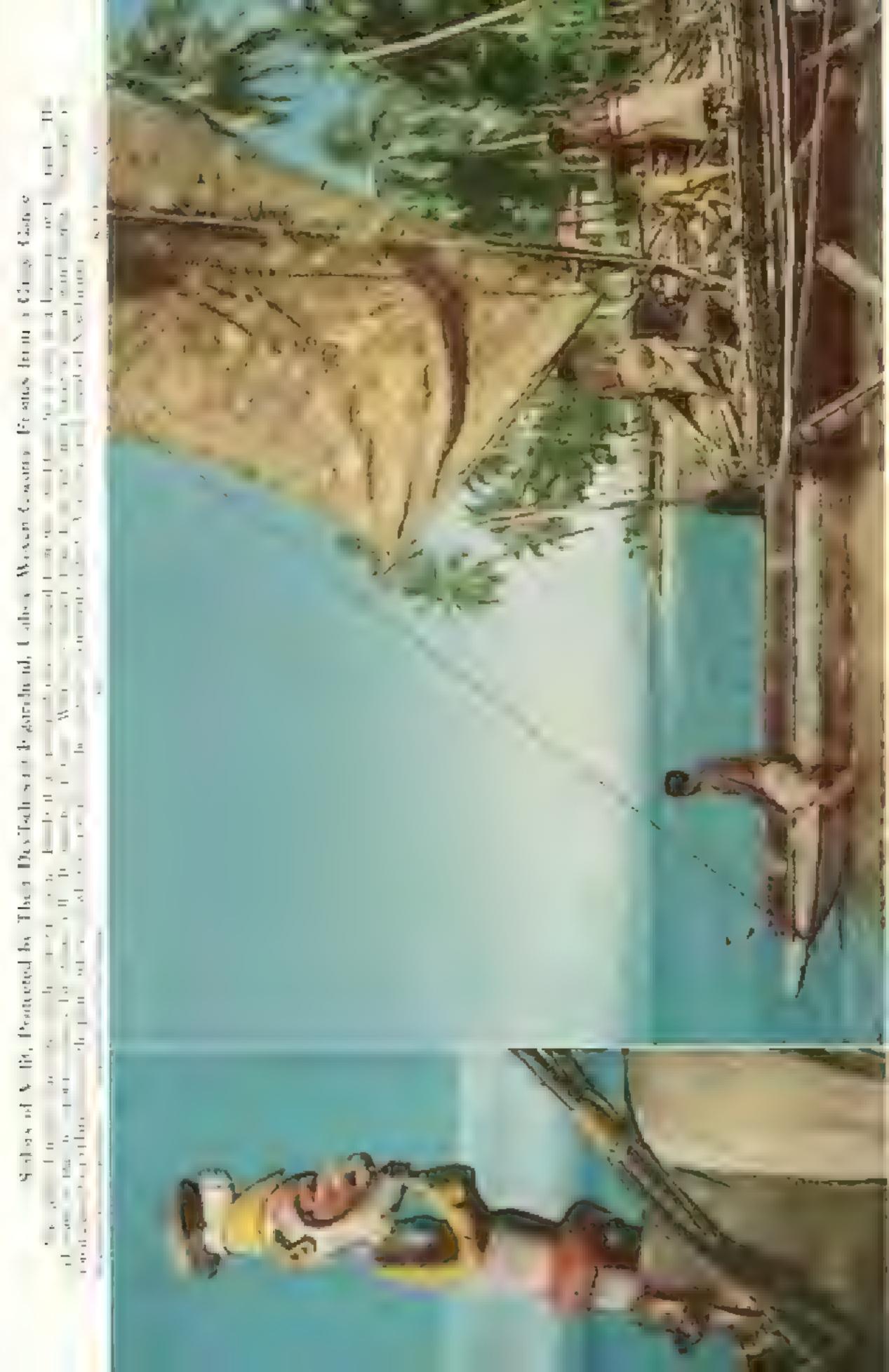
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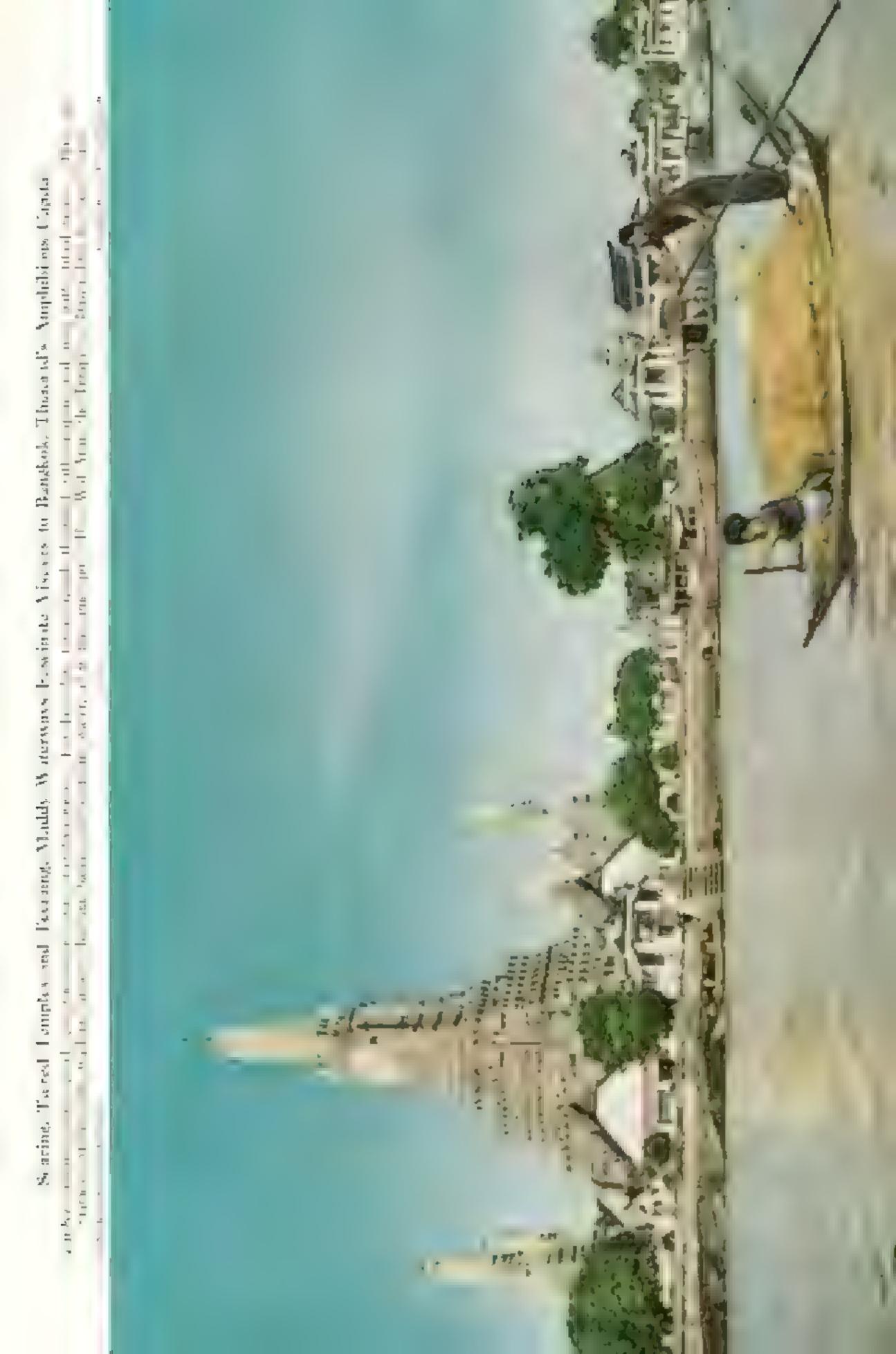
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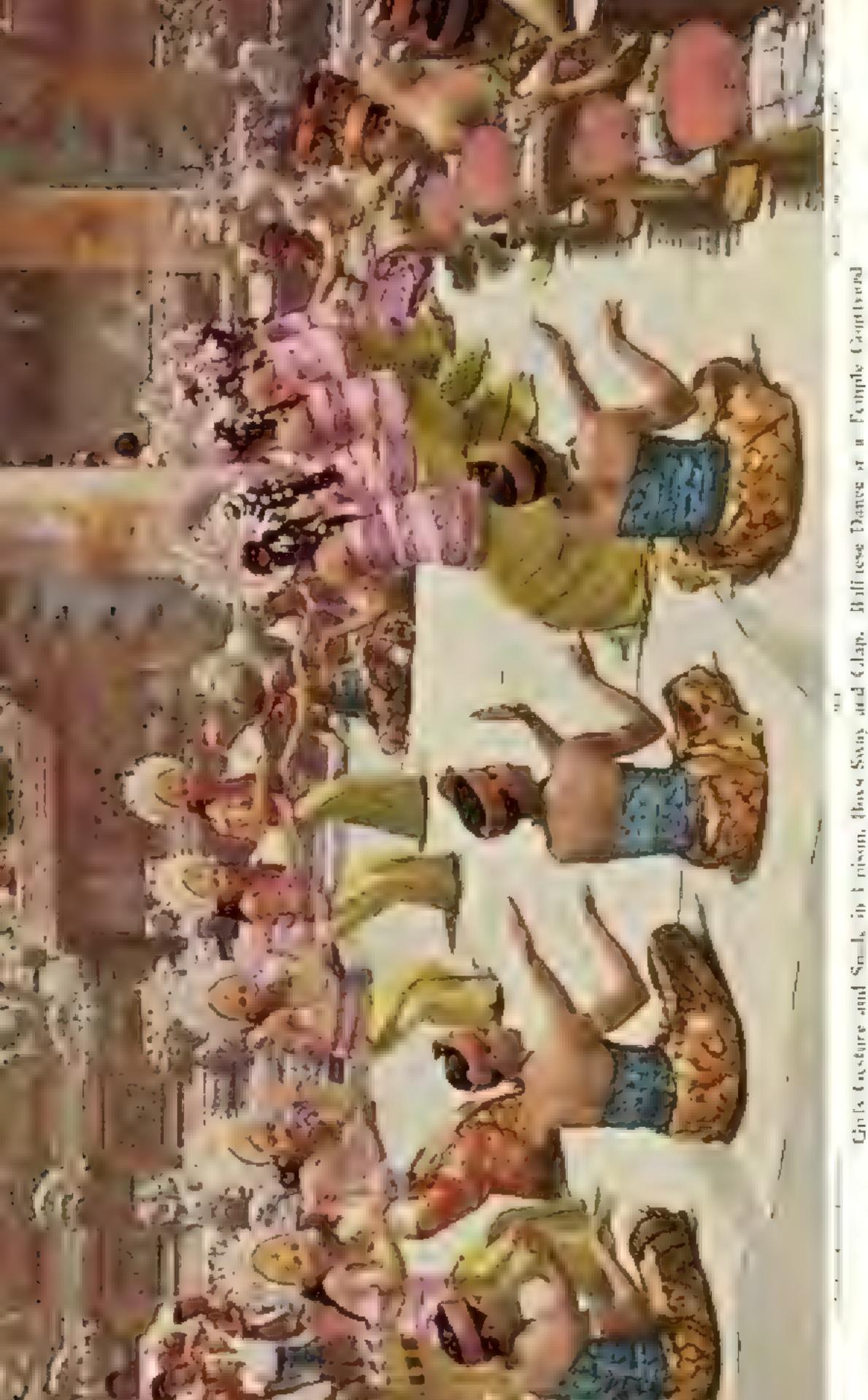






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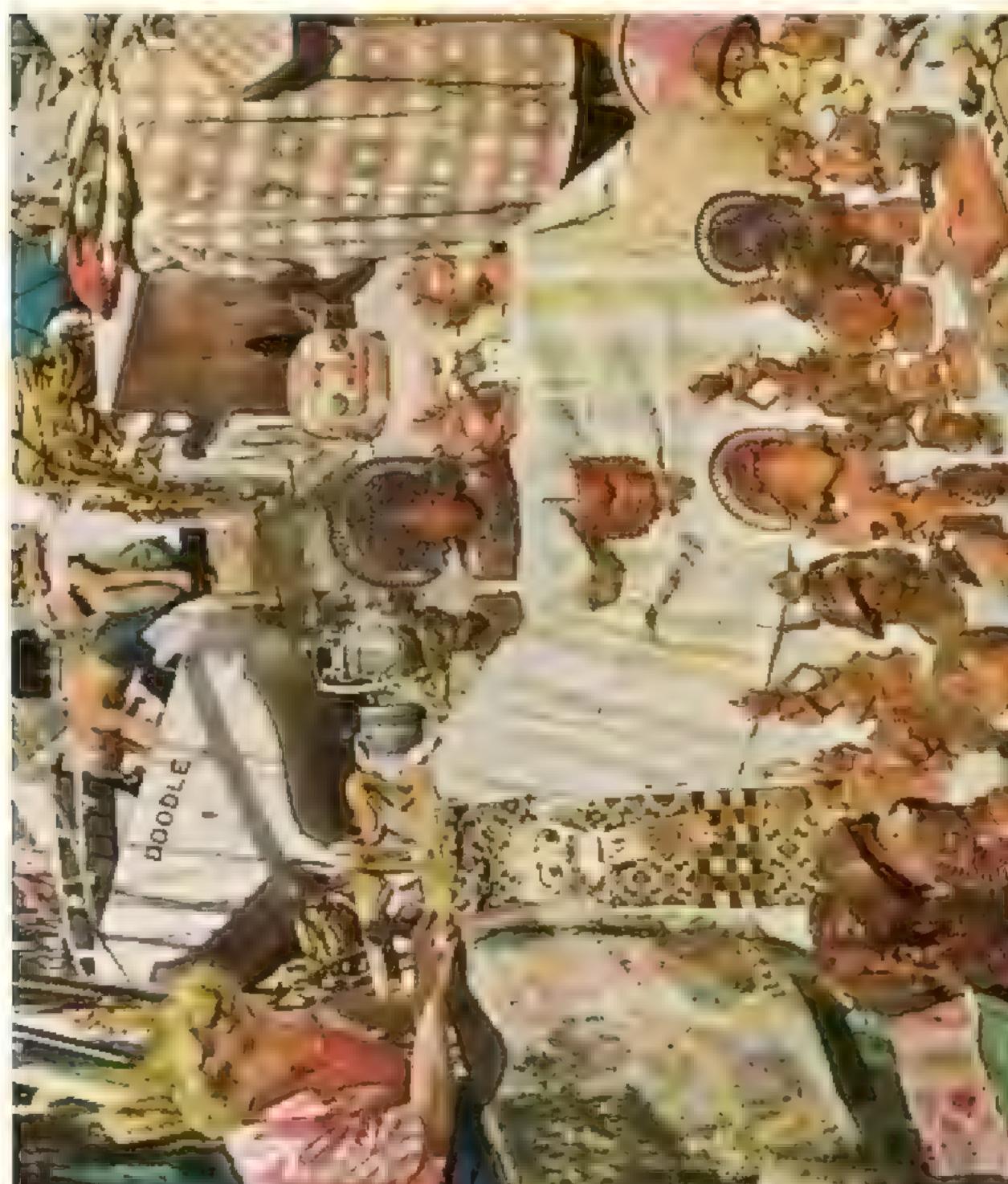
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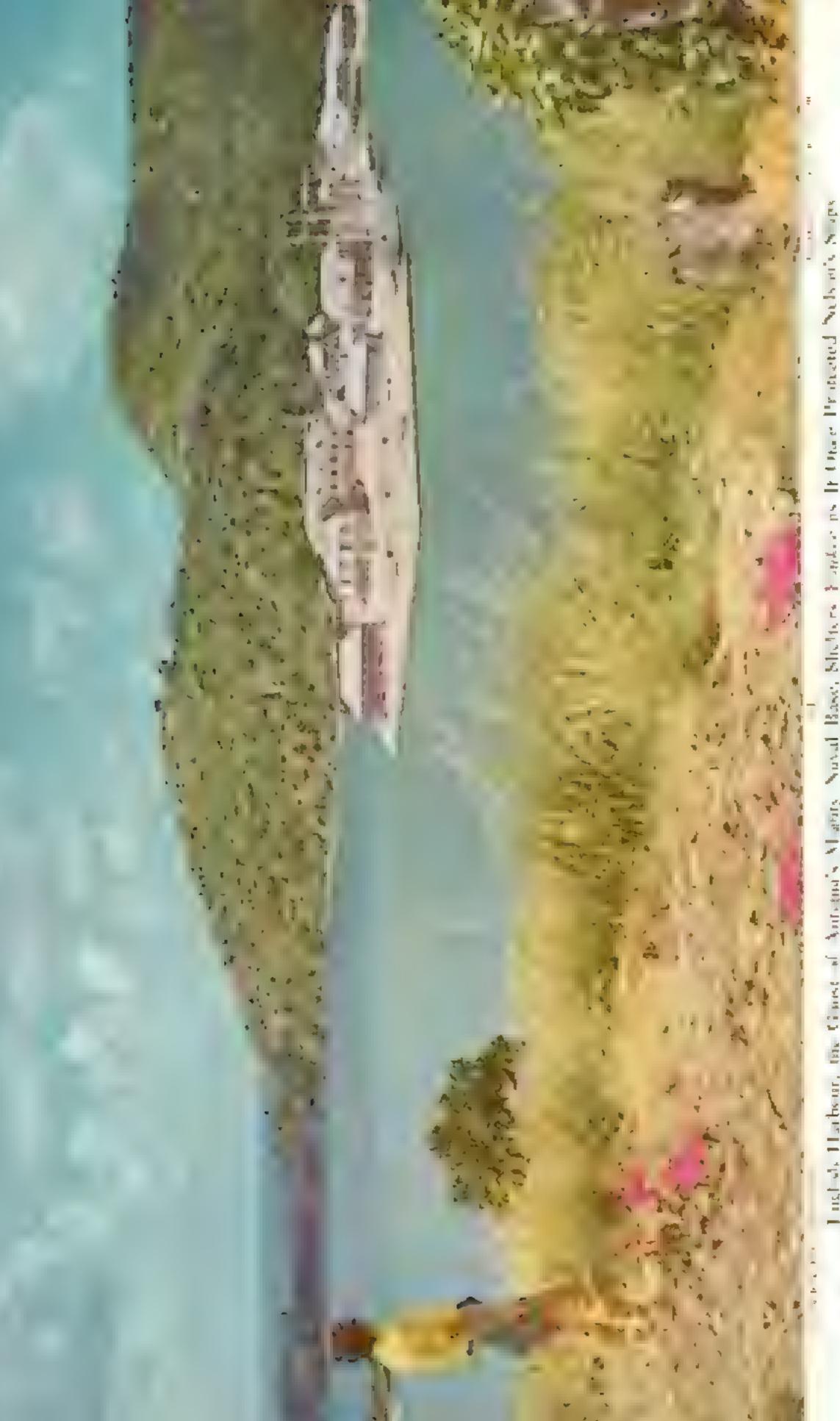
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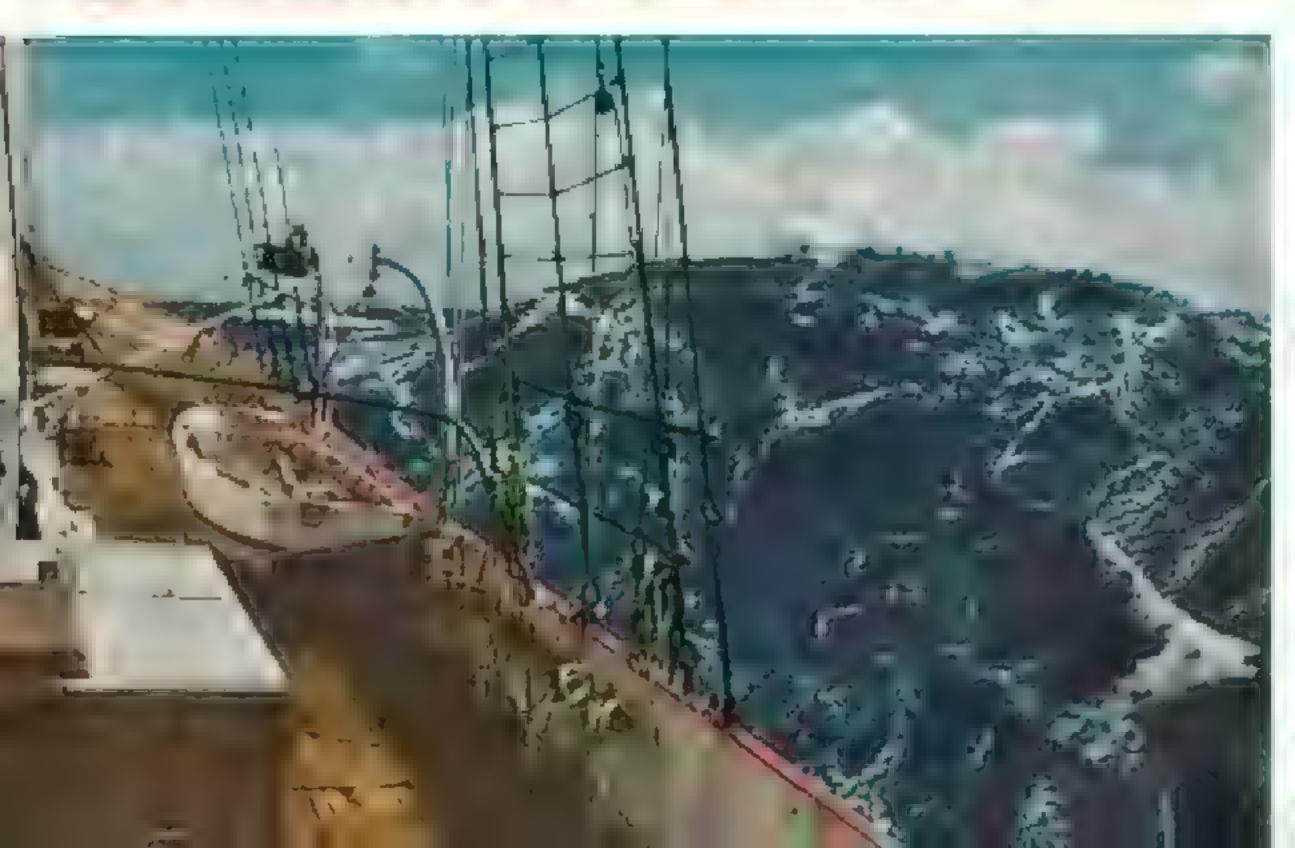
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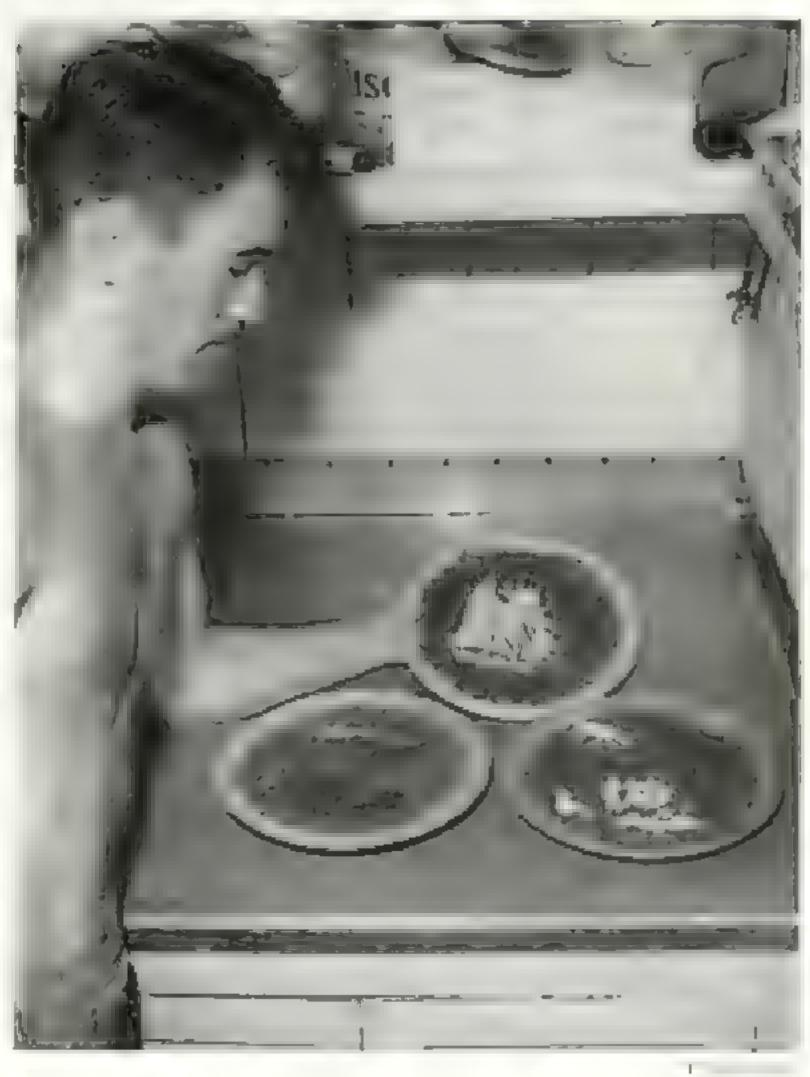
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A Miniatore Vanker Sails Acress a Tempting Pag

Figure 1 and the ships of war of partial and the property of the state of the state

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abserbally recited their cries and particular or the first to an estimate of reer or to place rolls was remaining to the large best for a late We are set the site where is got for I have to Jamainus ashore with temparine calls. 115. 4

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The the marter Bermuda we grow to be frepre voyaging. Shivering from an acros - A cold, we examined the thermometer and read



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> 48"! As we voyaged farther north, the restcury fell into the low forthes. Layers ... wordens could not shat out the chil

> Putting out radio to work, we startled our

We Sall Through New York Harbor

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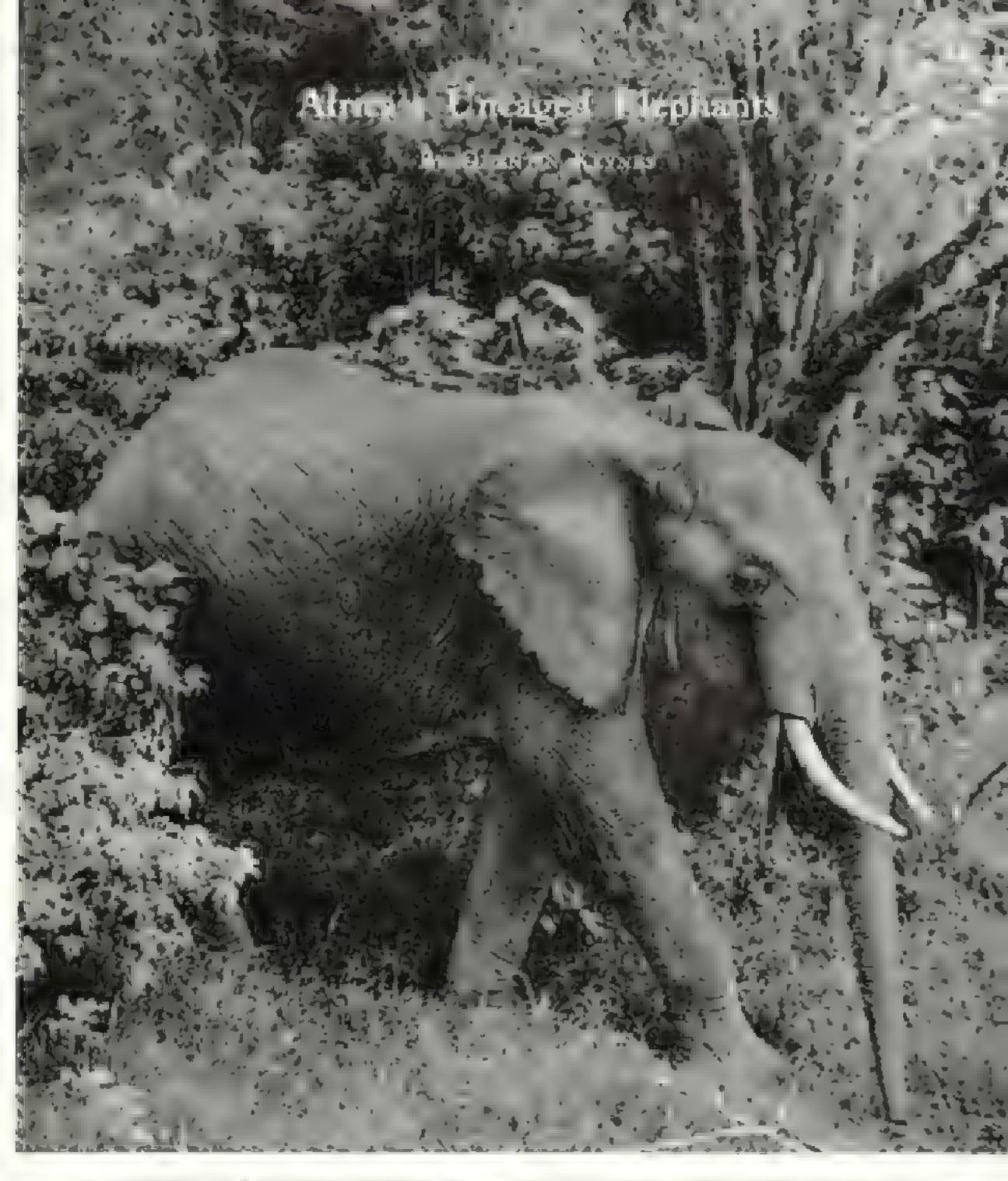
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The Caves of the Thousand Buddhas

BY FRANC AND JEAN SHOR

With Himtrations from Photographs by the Authors

center of the world's civilization still lay on the hast, the Great 5dk Road carried the treasures of China to India and Fersia. Worlding west from Siking (Sian or Changao), China's ancient aspital, in Streast Province, it emerged from the Great Wall or China at Yumen, the "Jade Gate" of the west,

A little farther west, near the thick-walled city of Tunhwarg,* the highway forked. One raid can porthwest across the Got'i (i.e., "Desert") to Harm (Qomul) and Turfan, and thence to Persia (Iran). A southern fork dared the formidding Lop Nor desert and the waterless march to Khotan, then scaled the

mountain passes into India.
So it was at Fundaming that the great trade caravans paused for a last chance to refreshmen and carrels and lay in a last supply or

ford and water.

The caravan tomis were primarily avenues of trade, but wherever men traveled, they learned new things. Tracets who made their way hack along the grueling ripe I rought news of other large, other customs—and other religious. It was not strange then, that new brisely first found a footbold in the desert sands. Buddhism, Mann bacamen, and inter Nestorian Christianity and Mahammedanism were to flow east along those same tracks that cheried the produce of China to the outer world.

300 Sacred Shrines to Buddho

Four handred years after the barth of Christ, the young and vigorous rebuten of Buddhism had become the dominant faith among the merchants who passed through Turkwang. It was natural, then, that these devout nepshall passes to worship. Alread by a danger-ous journey. They might be waylaid by bandits, perish of thirst in the desert, or lose their lives climbing towering mauntain passes.

A dozen miles outside the city walls of Tunhwang, in a narrow garge between the Mingsha and Sanchi mountains. Muddhist moulds established a temple in a great cave, holawed out of the rock chil which walled the river. For more than a mile landreds of smaler caves honeycombed the chil.

The 200-i wit wall was dotted with chambers of varying sizes, sometimes as many as four set one above the other. In the central chamber, the prophs burned incress, brat their great

lorass gongs, and chanted ancient litanies. Here the merchants, travalers, and solders came to pray for safety and success and to make sacrafices part donathous.

In the middle of the fourth century an independent metabout commissue and an artist to decorate one of the smaller caves as a chapel deducated to his expedition and paid tempte

priests in worshop in d.

The idea caught an. For more than 1,000 years the practice continued. Graciantly some 500 caves were filled with paratings, fractices and states lunges of Buddha and his disciples. Eight dynasties rose and feel while the Caves of the Thomeand Buddhas were developed. As their fame spread across the desert samps, reverent both bists in the annual pillerinages to the remote temple. In a single month 50 000 tracked across the desert sands to worship there.

The pass of years have seen the caves stripped of transacripts and hangings by West-ern explorers, their statues and antwings plan-deted by Chinese locters. They were used as awelling places by White Russian retinees who has kered the mind walls with their con-

ling Bres.

Few I reigners have visited Tunkwang. Western traders who teached China in the 19th century came by sea. Tunkwang, with its extraordinary cache of priceless art, was 1,500 miles inland; it offered no attraction.

Individue only highway in the only a northeast of the sheepy hi le town. Only a northeast of the sheepy hi le town. Only a northeast of the sheepy hi le town. Only a northeast of the sheepy hi le town. Only a northeast of track links it with the outside world. Tunhwang lost its importance hundreds of years age. As sunt 20,000 people remain, eking out a meager existence as farmers and trading with nomadic Mongol and hazak herismen who live in the sarrounding desert.

A Little-known Wonder of the World

Yet, in the middle of this wasteland, signed the famous Caves of the Thomsan's Buddings, many side intact. They represent a remarkable repository of Oriental religents art, one of the little-known woments of the world.

*To locate important places mentioned in this activity see the National Geographic Society's New Map of Asse and Advancent Amas, published as a supplement with this Issue of the National Geographic Malains.



France Shor and a Tuneau Friend Row a 30-foot Boat Across Sinkings Heavenly Lake I to the contract of the state of the sta

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Our reception at Ummuchi, however, more than made up for the dight. Mar. Robert Ekvall, U.S. Military Attache, met us at the read and drove us to the American consulate, where we were the guests of conval f. Hall "atom as a wife. We told them of our plants are return overtime.

City in Another World

They thought it might a room of the relatives that it would need that, to their land it would need that, to their land it is not consider woman had made quite that, of course, was all Jean needed the had been a little worried, but now noth-

ing could dissuade her. By the time we went to bed, the tup leasant tray its behind as ladbeen forgotion in our plans for the one coming up

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Wall Crumbles. How Long Will This Stucco Saint Stand?

[bis 12-foot figure is one of the huntreds brossed to Chita t Caves of the Thousand Buddhas, one of the ofth known wonders of the collection for the chita to the collection framework formed the sceletont bundles of recis made under and legs. Then they was applied and when by, early in the collection of the collection

the wers dulind courtyards sarfounding cambling adule bears. Courd vines clumbed over puties, and strings of bright ted propers hung from roof poles

Naked children I layed in the treet dust. Tungan warsen wir dresses gay brunges o The fireest, weakers slowly y ript therhead great holonic process wheeled in the research to the sound ... ring from tiny wind whistle-. " iched to their legs. A es led Turki gentleman rode A. A. Day, seated directly over the hind legs of his piac donker. He bipel was grounded the the note of a bootste bell, and we stepped aside to let a train. if hige two-himped camelnorthle lea

We walked to the main street. There are few untomobiles in this city of a quarter-mallion people. Residents travel af not a by animal. Public back-limited replace taxis. A book-limited driver follows a presented foute, and you simply trop alongside to bargain with him, they leap aboard.

To cisilars, it appears I musthis biggerst trade is in food Vendors of grapes, Turfan raisins, vegetables, and peanuts line the streets. Melons are everywhere, all vices a lightly Great piles of them appear rivery less sands. There are ting hard-shelled ones, resemblieg acom squash, others like Thought a supply a second of war are, and there of other tarature to are as along and r. 2 op Ten cents buys the largest of the lot. For two tents and the end of stage enough for two people

Nearly every block along the more street has us the stand throughs. Set on a low stool in front of one, and the eager vendor will sever a handful of fone metal skewers and thread each with six or eight good-steed pieces of muttan. Six along over the coals, they are

seasoned with salt and red pepper. You eat your ful but save the uses skewers. The cook figures your bill by counting them. Cost: one cent each.

We planned un teturning to the congulate for lunch, but instead we feasted on shaslik and Turk! I read, then bought a ripe melon. We wandered down to a clear millstream, where we sat and enjoyed our descert,

Across the stream was a large walled compound. Women were washing clothes in the stream, and curious children lined up to watch us cat. Turesan, Tarki, Chinese, and White Russian families at level in the same compound in harmony (pages 392, 393).

Cans Frame a Strange Picture

In the afternoon we rode a bucklinard to the walled business section, where there are coublestoned streets and a few modern buildings. The shops were full of canned goods, princtpally U. S. Army surplus items, at funtastic prices. A five-pound can of powdered make sold for \$30, and a small can of army stew brought \$4.50.

We stuck inside a shop and looked through windows pried high with American canned goods at the street. Two Kazak herdsmen, clad in great sheepskin coats and wearing bright red peaked buts topped with our leatheta, sat in silver-monaucd suddles astride finea soking ponces. They were driving a herd of fat-tailed sheep. That picture, framed in a window full of canned meat and coose, made as rule our eyes and wender if we weren't Creatures

Hall Paxton gave us a brief lesson in Sin-Liang geography and history the next day, "It's the largest Province in China," he said, "and the most sparsely settled. About 3 500,-ODD people live in an area of more than 600,000 square miles. That's more than twice the size of Texas. Yet there isn't much room for immigration.

"Actually, less than five percent of the land is usable. The rest is desert of so mountainous It can t be used even for shrep raising.

"Chinese form a very smal, proportion of the population. There are only about 200,000 in the Province, and two-thirds of them live in Urberchi,

Nearly three million of the population are Uigues, a Tuckic people who originally came from Mongolia and embraced the Moslemfeligien, Then there are about 300,000 Kazaka, a nomudic people, related to the Uigurs in speech and religion. They are the most colorful people in the Province. They love horses and ride everywhere. I we even seen them ride right late a state in Urmichi.

"The rest of the population," Mr. Parton continued, "includes Chinese and Turk'r stock, and han Huls of Mongo.s. White Rive sians, Manchus, Taj ks, and Laranchi. There have oven numerous battles between the Chinese culers and the other races, but at the moment everything is penceful. I think you can travel through most of the Province in perfect safety."

"Americanski" Opens Many Doors

We took Mr. Parton at his word and found it correct. During the next my ith we traveled both north and south of Uninchl by truck, horse, and camel. Never did we meet any-

thing but hospitality.

We rode south into the Tien Shan (Heavenly Mostutains) and to Tien Club (Heavenly Lake) (page 3841, on a Lanting trip. We found a warm wetcome in every felt-covered Kazak yurt. Invariably, at the word "Anserkanski" the daor flap would be pulled back, we would be invited inside, and hot tea, wooden bowls of fresh milk, and heaps of rousted grait, would be placed in front of us, Layment was impossible thinge 5551.

Nor was such triendliness found only in the country-side. Anneticans are rarely seen in Frumchi. We were followed almost every-Whate by groups of youngsters and a few circles, all anxious to assist us. The most atheteing thing to us was the community aspect

of our barraining.

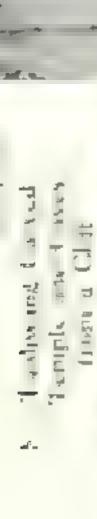
la China proper, crowds watch in silent gice while a clever merchant cheats an mususpetting foreigner. Not so in Urumehl,

When Jean or I found a saddlebog or a pair of soft leather boots we liked, we'd try to butgalit in Chinese. But most merchants spoke only Turki dialect. When that happened, the emookers would take over. Members of the crowd would examine the article, bold a brief consultation, and agree on a proper price. The markbants might protest, but it did them no good. The crowd divided on a fair price and wouldn't allow us to pay more.

We would gladly have stayed, the winter in Urumchi, but we had already spent a month, and out trip across the desert would take at least as long. We arranged to leave the city on a government truck departing in a few days.

 See, in the National Greekspille Magazine. "With the Name is of Central Asia," by Edward Marray, January, 1986; "From the Mediterranean to the Yellow Set by Molor," November, 5932, and "First Over the Rom of the World by Motor " Mas b. 1912 both by Maymard Owen Williams; "On the World -Highest Piateaus, by Hellmut de Terra, March, 1331. Desert Rold to Turkentin," June, 1939, and "By Could and Caravan Access Central Asta," by William J. Midralin, Ekstaber, 1937.





A Buddler at will be Court a Have the monday They



On the morning of September 29, Paxton drove us to the Highway Department commound. We located our chariet, a battered wartime Studebaker, and tossed our barracks bags aboard.

Foreigners Get Choice Seats

Invited to ride in the front seat, we managed to squeeze in, with our shoulder hags, trench with a big sack of mail. We would have been more comfortable riding with the ha f-dozen Chinese passengers at sp the mountain of oddrums, freight, and higgage in the reat. But our ariver had instructions we were to have the choice front seats. No amount of persuasion would thinke his mind.

The drivet mounted to the cab and turned the switch. His thry mechanic turned the crank several times, then leaped high in the six like a ballet dancer and came down with all his weight on it. The motor coughed, the truck shock, the mechanic scrambled to the top of the cab, his feet dangling in front of

the windshield, and we were off.

A half-mile out of town we halted beside a crowd of people and a mountain of luggage, the driver jumped out and began bargaining with the crowd. We write surprised for a moment, then recognized the old t bluese custom of the "yellow fish," passengers who pay the driver rather than the truck owner.

There were 14 new passengers, laubulang one entire family traveling with all its possessions. While we watched in open-mouthed analyment, they loaded onto the already crowdest track a crare of chickens, another with four squading pigs, and a great assument of bundles and power.

When there was no more room on top, one man produced a rope and skillfully lashed half a dozen chairs and two pairs of huge elk (wapiti) auters to the back of the truck. Then, from the ditch beside the toad, he I fted a bamboo ladder, and the "yellow fish" mounted the truck. The mechanic went through his baket performance once more, and we were on our way again.

The road from Urumchi to Turkan, our first overnight stop, is good. For two nours we relted along at a brask 75 m les on hour. Then the driver, Mr. Li. began to watch the amnéter parties, des mais le partie, des mais le partie, des mais le partie, des mais le partie de stendy "charge," and I could see nothing wrong. But Mr. Li

was chereasly concerned,

Finally, with a sigh of resignation, he bulted beside the road. Mr. Kno, the mechanic, took a tool kit from under the seat, and with considerable speed and efficiency they dismantled the

there, and cranked the truck. Mr. Li viewed the amounter with a critical eye. It registered exactly as before, but this time he smiled with satisfaction. We resumed our journey.

live times that day we repeated the performance. Three times it was the generator; twice the carbonetur was taken apart. I was positive nothing was wrong, and the whole

performance mystalied me-

Then Jean pointed out the admiring attention the whole exhibition drew from the other passengers, how they saliled and nodded; and innerstood. The boys were simply snowing off their mechanical knowledge. Like an American cowledy who makes a gentle borse misbehave before a crowd to demonstrate his norsemantally, our new friends were making it back hard

Mechanical Skill "Wakes Face"

The performances of other drivers we met later confirmed our conclusion. Between Uramahi and Lanchow we kept careful score, and that 1.000-m le stretch of road saw generators disassembled 31 times, with carbonetors a close second at 27. Fach three the present calculation with open admiration. Mechanical transportation has simply added another fact to the spelent Chinese custom of "making face" (pages 410, 412).

Despite frequent exhibitions of mechanical skill, we reached Turian at dask. It had taken us nine hours to cover 125 miles. We stopped at a roadside inn, where we had a titly of the late
oed, taking up half the floor space,

On the main street two Chinese children were selling stewed chicken for a nickel a piece. We were about to try some when a Chinese army officer took a pair of chapstacks and removed every piece from the pot, tasting each before replacing it. He then selected two pieces, paid the children, and left.

They affered us next choice, but somehow we but lost our appetite for chicken. We bought a loaf of Tarki bread, a conicious melon, and a handful of white Turkin turins.

and rethird to our sleeping bags.

We started at dawn the next day. Our lunch was at a tiny desert village. A delightful old Chinese gentleman, traveling with his daughter, journet our table, as old a Chinese army captain who introduced himself as Captain Elwang.

We made good time in the afternoon, with only three stops to take apart the generator. We reach this Church Church (Seven-connected Well) about 9, and stopped for the night. Here there were no small norms such as we



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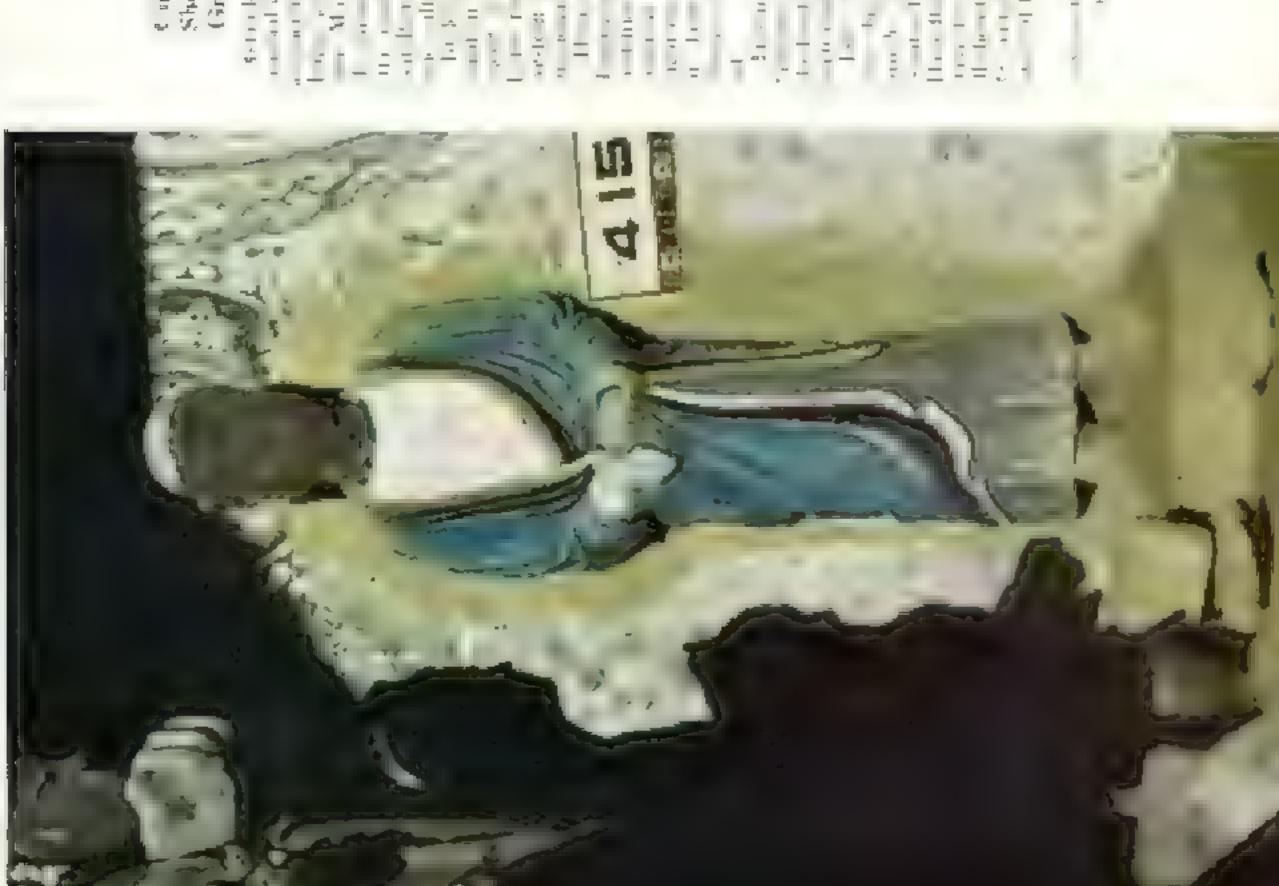
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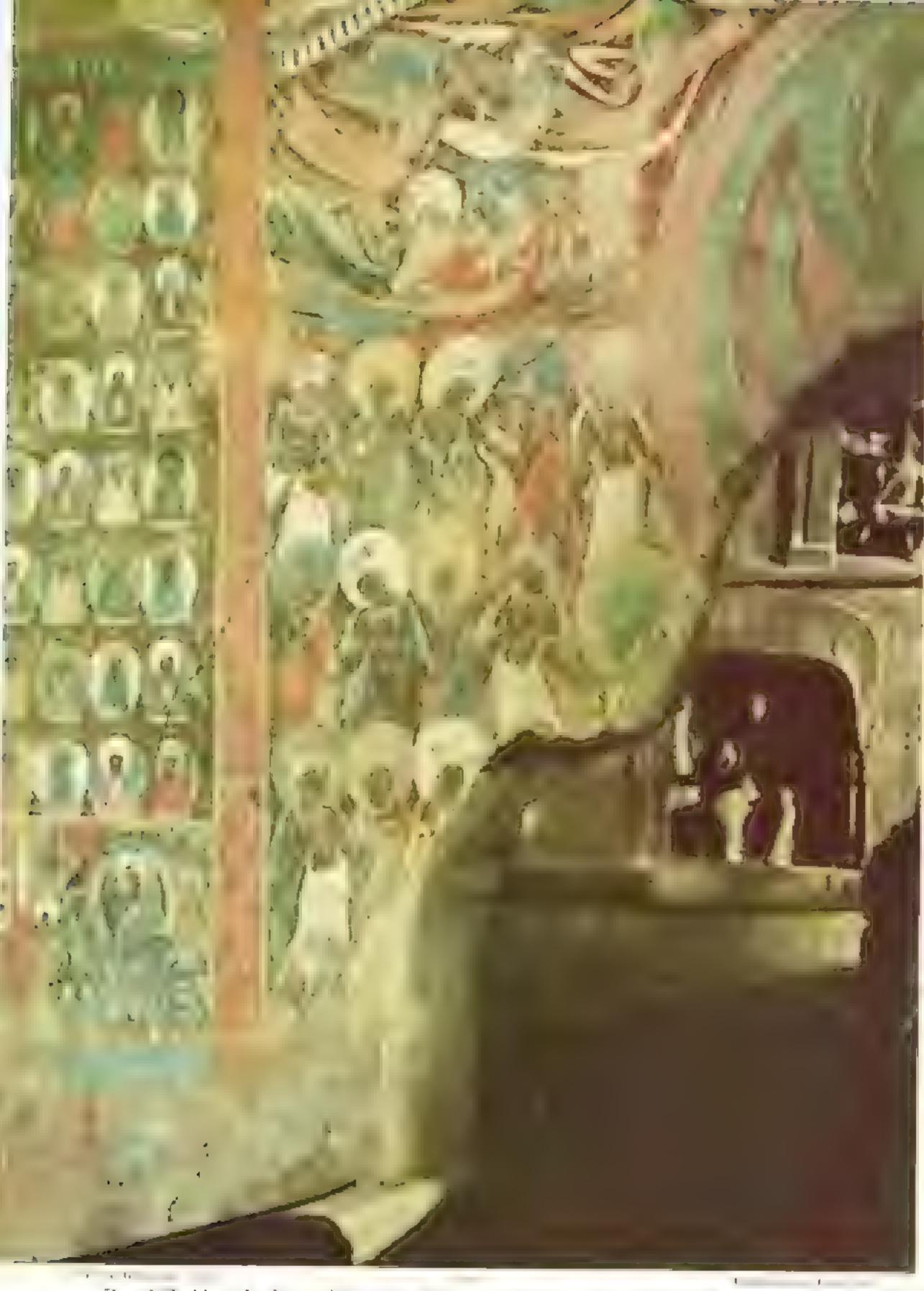
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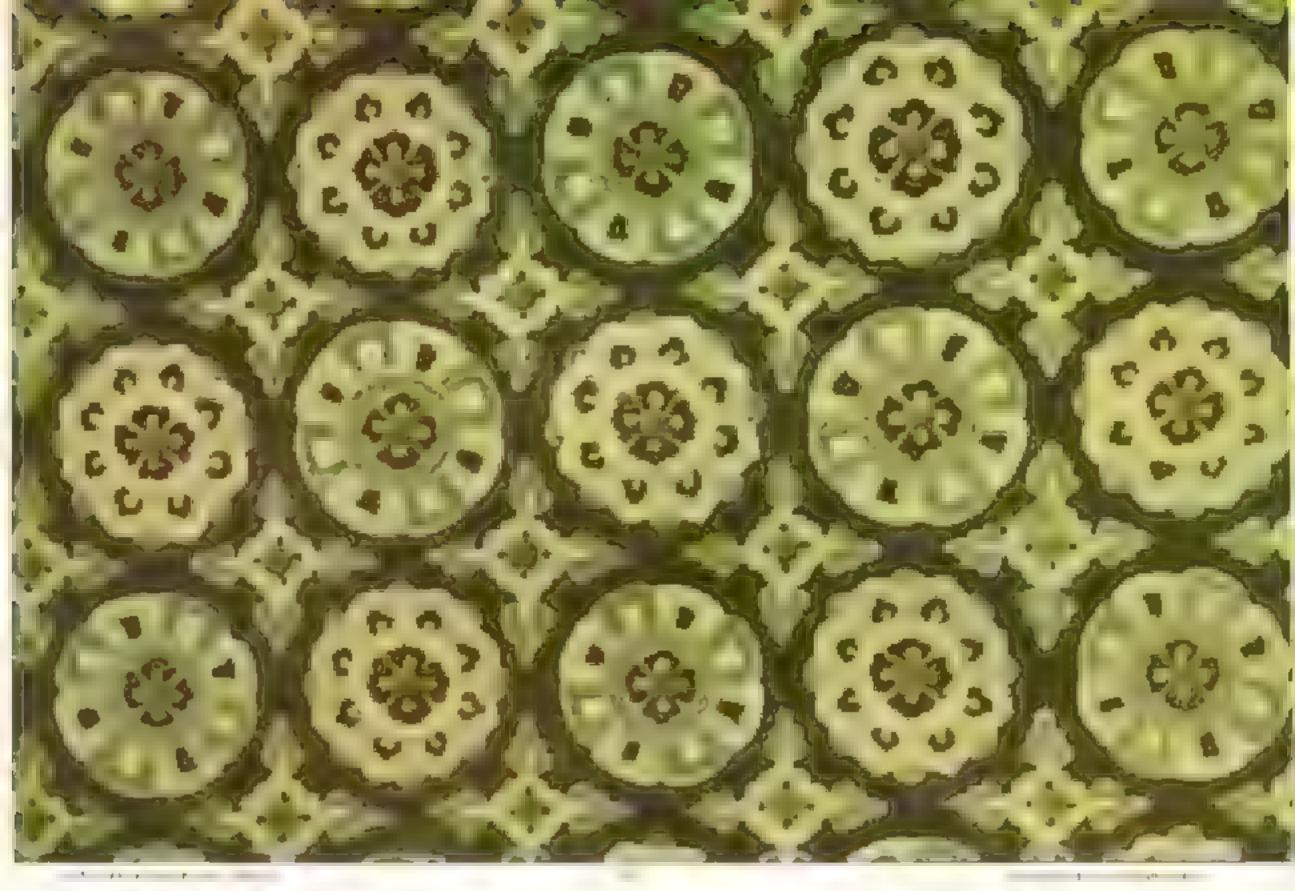
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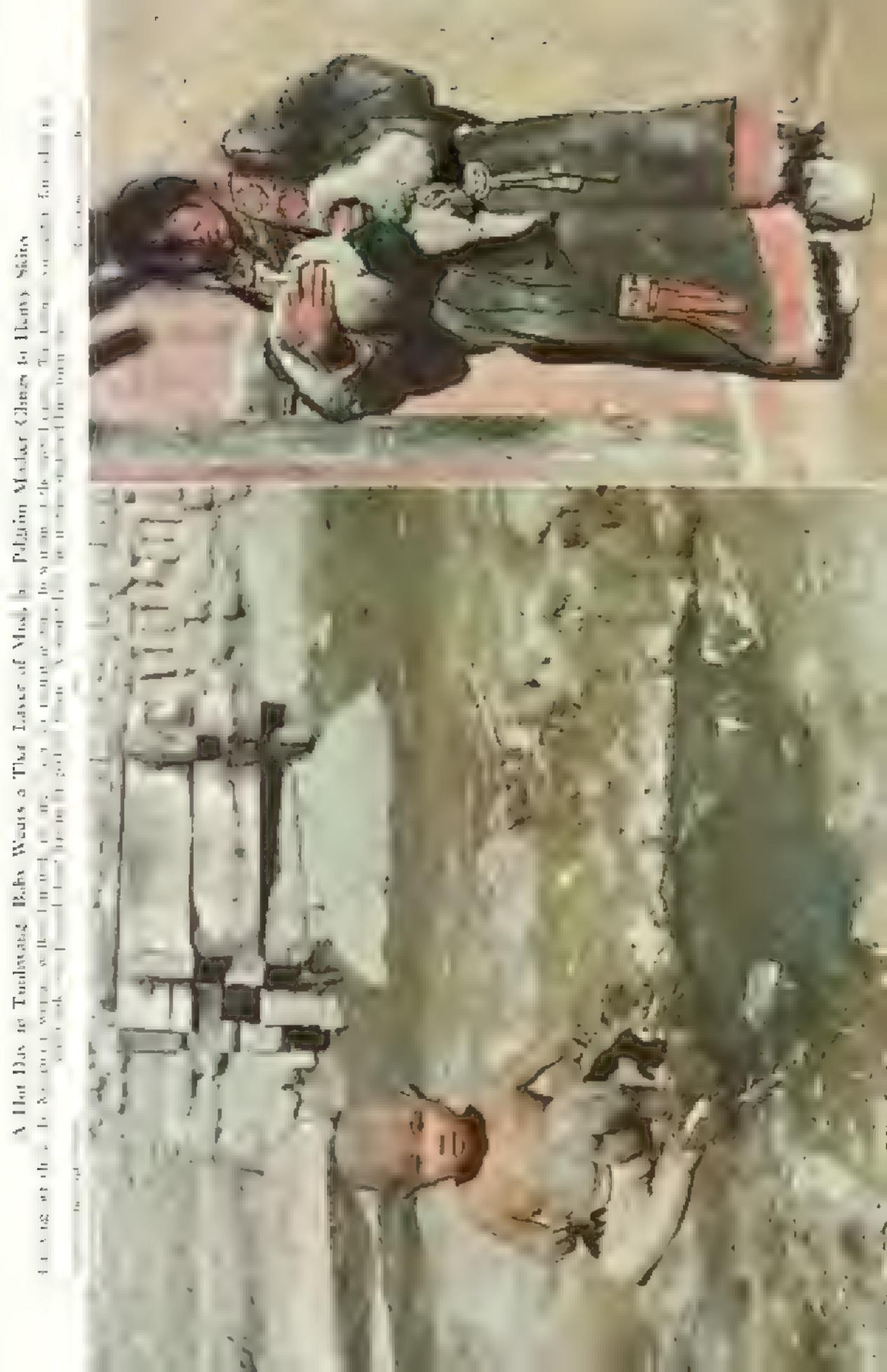
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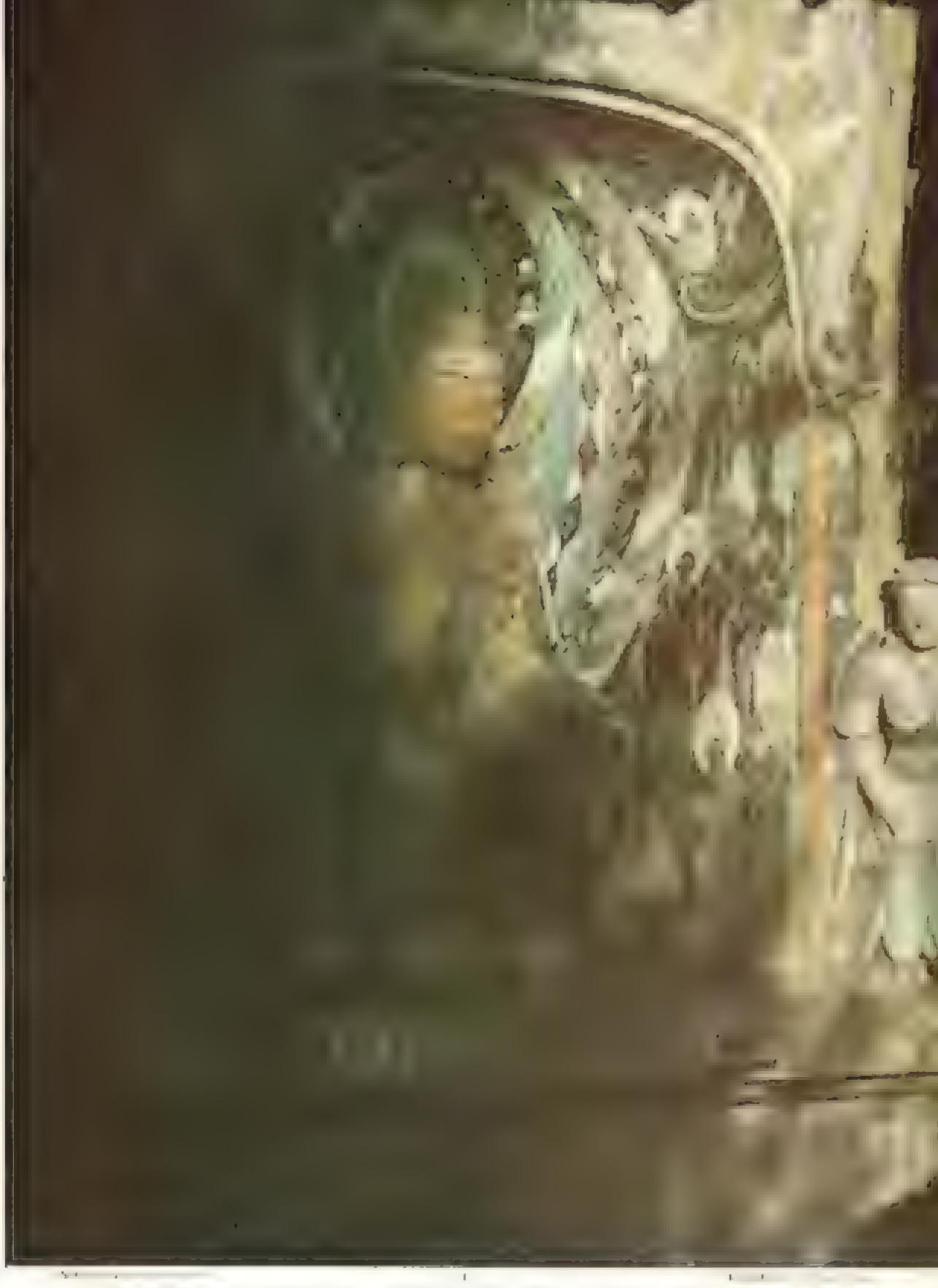
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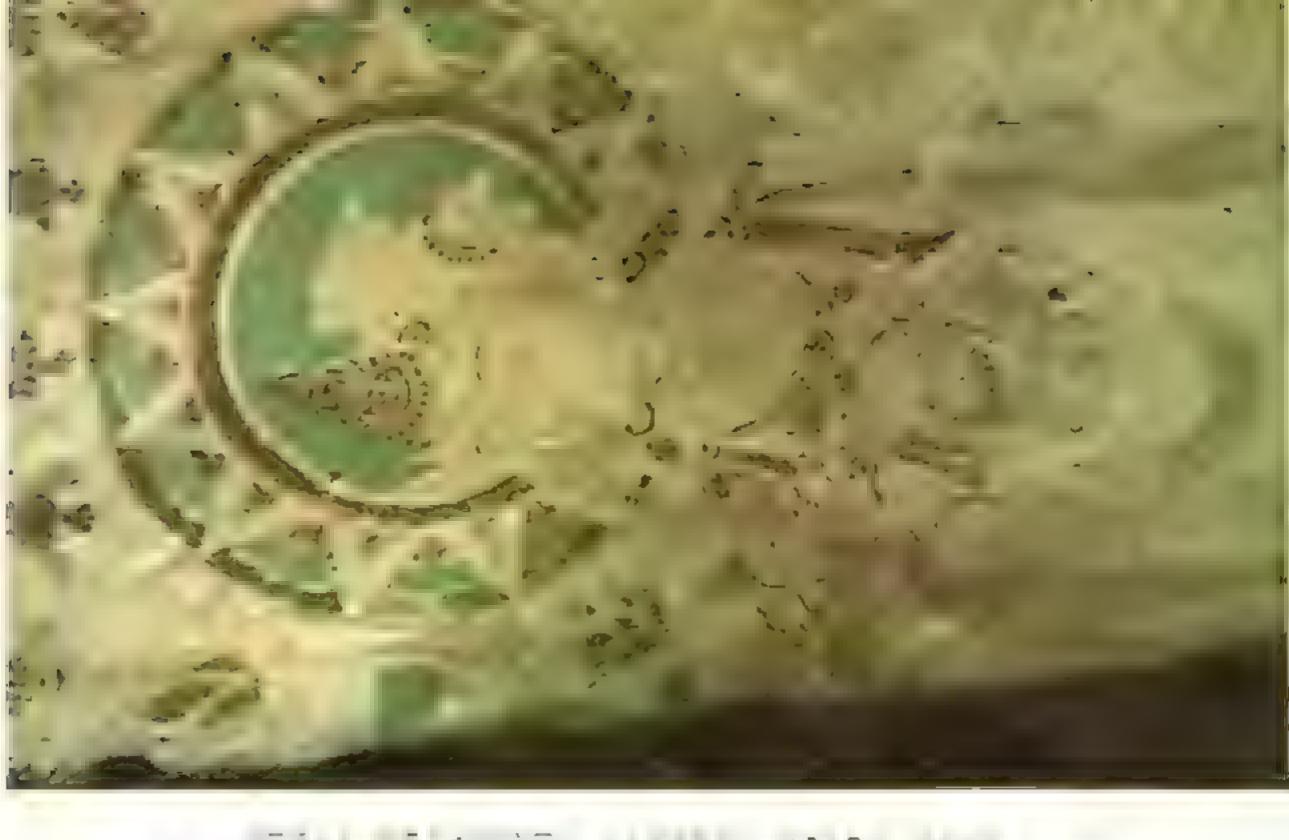


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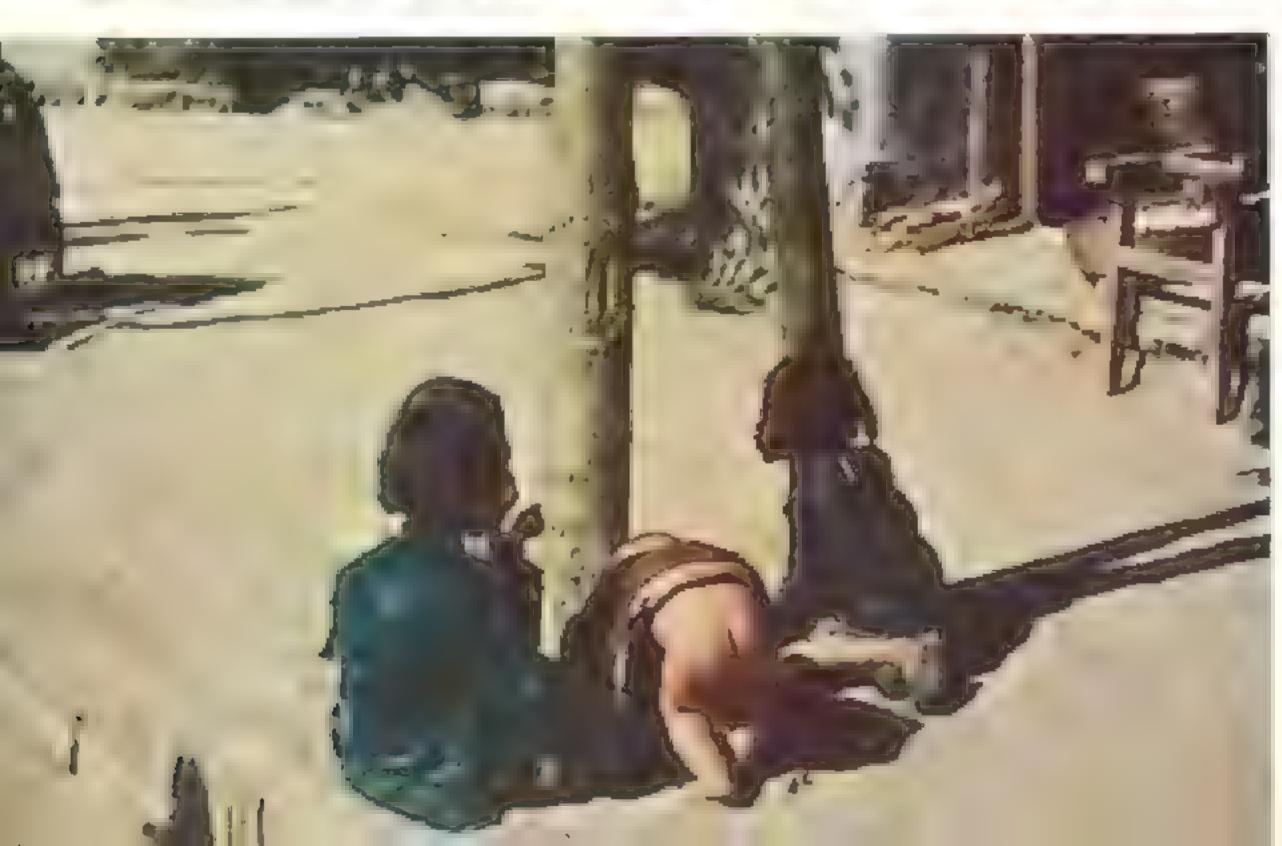
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A Chinese Farm Wile Dresses for a Shopping Urip 6. Aust

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Grinning Lather and Gluin Son Edit sed too Pilgrin and from Monocla to See the Caves

had enjoyed the night before, but only two large halls, each with a knog some 25 feet long. Captain Hunng bedded down next to is and agreed to awaken us in the morning.

Chinese Sleep Talking-in English

At 4 o'clock I was awakened by a voice droning, in a low mount me, "Mis-ter Shaw-er, Jurise get up ver-rey ear-ly. Mis-ter Shaw-er,

please get up ver-rey ear-ly."

I was surprised, for none of our fellow passengers spake English. I turned on my flashlight. There lay Captain Hwang, sound askep, repeating the semence, syllable by syllable. As I watched, he rolled over and was quiet.

When he amoke us at 6, I asked him, in Chinese, why he hadn't told us be spoke English. He explained he had studied it for two years but spoke so hadly he was embarussed to attempt it. When I told him of his natural pul conversation, he wouldn't believe me.

The day was miserable. A cold wind swept across the rocky desert, and a driving rain sought out the tracks in the track cab. Our fellow passengers on top smagled beneath a canvas tarpaulta. Peculiarly enough, not once during that day did our crow find it necessaries to desire the day did our crow find it necessaries.

essury to dismantle the motor!

Toward evening the weather cleared, and when we reached the outskirts of Hami (page 409), the long rays of the sun farned the outsis into a fair, land. Suddenly the desert was good, and we were among losh green fields.

mail groves of three.

We passed through the rained walls of what was once the Moslem area of the city, where wrecked much houses told a silent story of hitter battles in the revolt of 1937, Unit us bed among the desolation stood a magnificent masque, its walls aglean, with white- and blue-figured tiles and its green-tile dome glowing sof ly.

We paused outside the gate of the Chinese city to discharge our "yellow fish," then relied on to the Highway Department repair shop There Mr. Li Informed us we would remain

in Homi for two or three days.

We tassed our bags on a flami tood, a browy wooden cart pulled by a tired little Mongol pany, and to be to an ind where we got a tiny private toom graced with a small wooder, table, two stools, and a smaking oil lamp hanging from the ceiling.

Cuptain Hwang insisted on taking us to differ. We suggested an open air meal of shashk and melons, but he was harrified at the idea of entary on the sircet. "Vec-rev dir-tey, ver-rey dir-tey," he said. Instead, he led as through that we alleys to the dirtlest Uhinese.

costaurant I have ever seen. There a balf-dozen cashes were served in filthy bowls with fund-encrusted chopsticks.

We managed to cown a bire or two of some things, but couldn't quite negotiate the spiced beel. The proprietor kept this choice frem langing just outside the shop. To serve it, he shaply brushed away the flies and sliced off a few tidbits. We thanked the captain for an excellent denier and went to bed hungry.

Jean awoke the next morning with a firm determination to take a bath. After a pleasant breakfast of Chinese meat rolls and eggs maked with green peppers, we set out to find a bathbonse. We asked a Chinese gentleman where we could find one, and while he tokens, he also told everyone else within hearing. A crowd of some 50 people followed us to the establishment. They were friendly, but Jean found their concern a little embarrassing. As it turned out, they saved the day.

They crossical into the office of the little bathhouse with us, and listened patiently while I addressed the surprised proprietor. He was pleasant on ugh, but hornfied. Women in China do not go to public bathhouses, he explained family. They bathe at nome.

Courtesy Enforced at the Bathlouse

But the crowd had a different idea. A very old Chinese gentleman stepped out of the audituce and spoke sharply to the proprietor. Here were two housead foreign guests, among the few Westerness who had ever been in Hami, asking a single favor, and he, the bath-bouse preprietor, was rudely turning them away. What kind of courtesy was that? What would the foreigners think of Hami?

A Turki gentleman wearing an enormous for hat and a sheepskin cout took over at this point. He saestee fast at the proprietor, then at the growd. The audience hustled through the door of the little entry room where we sat, and in a few minutes cut came the regular customers of the establishment, some still burtoning their outer garments and addenking very confused.

The manager even got into the spirit of the thing. He started ordering his employees around in a long voice. Within five minutes the bathing room was empty, doubte curtains had been stretched around one corner, a bench table, and pot of tea had been placed inside the curtained space. Jean was usbered into

the room with great ceremony,

Then the crowd swited at me and howed I hower back, and they withdrew across the street. I went back into the bathant more and femal another curtained corner prepared for me.



Young Friends, Neglecting Chopsticks, Gulp Nordles with the Power of Section in a confermal beautiful translation that the Chinese that their meals at open-air stands. This found them was a national damps above in Tutian.

In 15 admission we were those at the secubbed on the color of the secubbed non-graph of the state pile.

thanked the cr. wd as profusely as my Chinese we lid permit. They assured us we were not selvene, and wished us a pheasant stay.

At Li and Mr. Kao came by lase the next over g to inform us that the track would leave at dawn. We got up at 4, highed our ongs to the Highway Department compount, and found to has there.

At huch noon we departed, picked up a new load of "vellow fish" a trile out of town. The the usual motor trouble started again. But this time the generator seemed to be really stoken, for we stopped every few manufact.

Bedhuga in a Sandstorm

We made only 50 miles before nightfall and stopped at Lo To Chan (Camel Station), a tiny collection of buts. There we were shown to

the only private room in the lan, obviously the owner's private bedchamber

By midnight we were both awake and so tabling, and a quick look with a dashight rescal in a my of learner to many or our skewing is as less we could filled them with in a least of each desired to spend the rest of the night on the desert.

An hour later the wind rose, and our bage were soon indexed, with sex inches of sand are it, only we returned to the mix and single for the wind bowled, and streams of said see into the wind bowled, and streams of said see into the winds of our track were a foot dawn the wheels of our track were a foot deep in sand and the back was half fall of Got?.

It truck almost an hour to clean it out, but once on the read we made excellent time. Kao and Li had been up half the night with the



Squerking Higa-wheelers Gurt Watermalons to Humi's Market Place

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An Incredible Feat in Time

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France Smor and Chinese Captain Swep Character atop Caravan Caravis in Hard Here Mrs. Stor balls Caravis to be seed a special above in the public balls of the caravis were not always to the caravis and the



Driver and Mechanic "Make Lace" by Needless's Repairing a Generator

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China He had been on red in Jama and med in Jama and med in Jama and will be in the last of the last a long beautifully.

Soldiers carried out lings to his ewn I mae, where his gractous wile tarmished an even " breakfast of noodless Chinese bread, green vegetables, and beef a card with green ourbe We would no misterly be horizontin Tunhwang, and n.s. cavalcy regiment would femish horses for our trip to the trives, 12 miles out of DOWNER.

We wanted to leave immediately, but he explained that a conceptained that a conceptained that a concessory, since transmitted Kozak bunds had recently tobbed Chinese travelers in the area. No soldiers were available that afternoon, he said, but he promised us an acceptate escort in the locality.

Alout 5 p'clock we were seeing the sights of Tunhwang, when the colonel came rushing up to us, "Youre lucky," he sail,

There are man from the caves here. We'll get you a ride." He haired a truck and introduced us to some young Chi ase, including Vr. Itwan Li sen, an artist.

They stopped at the colonel's butter for our bass and drove us out of town and across the reset to the caves. Before us in the monalight sundenly appeared a tall grove of peplan. We turned into a whitewashed or impound and were shown to a two-more spatta cut, its walls had with copies of cave paintings and reproductions of Buddha images.

We arose early the next morning and walked the 100 yards to the caves in time to see the great cliff in the first rays of the resing sun (page 385). Much of the chiff face is covered with fadire murals. Ancient we old it also are mark the entrances to many of the grottoes



Mat. LL wit of Anni- tradeway strector, "let me attrible in my vile Chinese again him Sac. "Saturd, an started spending period Luca by

tpage 394), and many tiny niches in the chit contain small statues. The poplars between the cast and the river cast a deep shadow over the lower portion of the wiff, softening the colors of the garish testotations of recent years.

Darkness and Dry Air Protect Caves

Fortunately, a lack of funds he hampered frestoration work, which involves touching up the wanderfully named and far and rellows with arrest reds, greens, blues, and vellows on most of the frescues are still at their riginal state. In the dry desert ar, preservatant is excellent; the paintings inside the caves, protected from the rays of the sun, are still aquisitely colored. Those on the chiff fact have been softened and blend beautifully with the painting of the sun, are still apprenticed softened and blend beautifully with the painting of the sun, are still and the softened and blend beautifully with the painting of the sun are such as the sun are sun are such as the sun are sun are such as the sun are sun are such as the sun are such as the sun are sun



This Battered Wor-surplut Truck Carried the Authors Agrass 500 Desert Moles

When an invariant of them leaked over the sale, the truck stopped, and to text but the top of the truck of the first and the first of t

The first thing which we saw was the Tom; le of the Great Bustdua (pages 38%, 391);
of dies or he had be into the larg expense
of cliff. Outside, it resembles one face of a
pageda, with nine caves programing from the
cliff face. From the currents of the roof caves
little temple bells tinkle in the breeze.

We entered the temple beneath a magnificantiv entered archivay, through a half his ignitive the large lynasis paintings of minarcustic entering for the day bound or selves in the day light or a constant of the darks best or excess became accustomed to the darks best, an enormous Buddha took shape is the day cause

We stored in awe at the feath units, sently 180 feet high, shaped from the mile of the cliff itself. At his fect stood a niw of which is a night incense outried that can be a read feaser distinities should in the median ride of the great vault, and the with the pattern of thousands of small Buddhas

Dwan, our artist friend, fold us the glant

Implifications constraints on the smaller protections, described by a result of the smaller wolfing the state of the state

We walked to the mathers to be of it where 22 cases of the felt in a path North em Wei dynasty (A to some sell in be after Inside these asserts to a constant in the assert is a some in a second response to the assert is expected in a flark preconditional and the analysis of rhythen and movement which the ancient artists imparted to their a sk.

Annual the tops of the Wei are were graceful from a text special text at a closely with from a text shows with from the large text the size of the weight of the white a constraint from his life one. It is a white a perfect to large and more

The Wei caves, Direction of the state of estimated alone as a representation of the production from the states.



Labrary of Congress Visitors Examine a Seventh-century Seroll Found in the Caves

Some 18 DO Tuel wage to a secretary, it is the interest American deemployed by the single of the Heatth Misseum Asset search to what sended, per learly against a train. The way of the first all the fact pear represents the many of the first and the first a

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Japanese troped Tand Masserpiones

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take the still approximate the first the first the section as the section as the section as The party of the transfer of the state of th China a seriet representing the tyrocoldy. One all suppressions a transfer than carried and a man to the extension of James with a gentled to the and the profits and Justices of earlier rating a line dock totrack son any error on terminal rape is total deverte see that if it is on her Al Triburage Part of 1 7 K ; that the best two of the artifical than property of the transfer of th

The Notice for a cover below a curber from a first that the country will be the first sade radibas or vinue 1 - wi may क्षा । विकास माना । विकास विकास प्राप्त प्राप्त । and and a little state of a contraction Collaborations there was larger and the ottimed herethehood from the tree of poorte and dragony they show off our exchence of the Carea i i'u a e which care from the Ciro c-Lung extend of Canadhara, India

Or see a see was and three - in the five tree ready as he had been Budthe englishment Codheats a page 4)31 of arres 1,000 the Western Pro -e

These latter scenes are of striking grace and beauty, representing the souls of the klessed terhning in claborate pavilians around a latuscovered lake. Celestial beings sing and dance for them, and a soft rain of blossoms perfumes the air.

Jean was particularly (ascinated by the ceiling and border designs (page 397, top). Some were simple geometric patterns, others a syntmetrical arrangement of lotus flower designs. All were done with a weilth of color and bulance of design which made them singularly after the

Most interesting to us were the remarkable panels which tell religious stories in a series of pictures. These distinguished ancestors of our modern comic strips are dine in maznlificent chors and in many cases in a style almost alumingly modern.

Walt Doney Animals Churm

Particularly fascinating are the animals represented in these animated panels. Graceful fawns and notelope spans through the air, 'dentical in pose and expression with Disney figures. Little rabbits and forces watch the action with open eyed astonishment; they look the illustrations for a modern children's book.

One Tung cave contains a wrick of panels, 36 inches high, representing the introduction of Ruddhism from India into China. As your eye follows the course of the paintings around the caves, it is almost impossible to examp the feeling that you are wring a motion picture.

The great attributes of the Tang paintings. Dwan believed, are the vigor of their strokes the wealth of color, and the strength of movement. From the technical point of view this is no doubt true, but to us their beauty will always be in their realism and in their almost unbelievable presentation of living beings.

There are more than 500 caves in the temple area, and it was impossible for us to visit them all in three days. Lut Dwan and the other staff members took us to representative caves for meach period in order that we might

get a balanced picture.

There is an unusual sense of continuity in the cave pair tings. The primative strength of the Wei school bloods smoothly into the more finished product of the Sui and Tang periods, with yirdity and the feeling of youth stall a

strong factor.

Then gradually, through the caves of the Five Itymastics (A. D. 907-959) and into the Sung dynasty (500-1279) (page 395) there is evident first a leveling off, then a period of seeming stagnation, and ultimately, in the few grottoes attributed to the Yuan, or Mongol (1279-1306) period, a strong hint of necay.

The obvious love for the characters portrayed in the Sui and Tang eras is no longer present. There is a summers about the 100 caves of the Sung period which clearly indicates disjutement and a lock of important in

interest and a lack of imagination.

One of the must striking examples of this less of vigor can be seen in cases where original Tang frescoes have been plastered over and covered by Sung and Yuan paintings. In some spots the newer layer has fallen away, leaving half a wall of Tang and an equal area of Sung detoration. The later period suffers greatly by comparison.

After the fall of the Yuan dynasty the cares fell into disuse for nearly 300 years. Then, in the Cling (Manchu) period (1044-1912), a few new grottoes were decorated. The temple continued to be a center of Backshist worship, but the camvan routes had shifted. No longer were there wealthy traders to act as patrons to artists and priests.

Though half the caves are approximately the same size, others range from the vaulted cavern of the Great Barriba to tiny closeflike gratures containing a single figure and a few test of the law law law before the present of the same arginized by themsels or a series of balconies. Thus it is possible to travel the entire length of each level without descending to the ground.

We spent two full days and most of a third at the caves. We would gladly have spent another week, but Colonel Chin had told us of a truek which was to leave Tunhwang Sunday morning. Reluctantly we left the caves and started back to the modern world.

But in Turbwang we found that the truck was "broken down." We set out shortly before poon the next day, a companied by six other regular passengers and 24 'yellow lish." The load was too great for the tires of the angest yehicle, and we repaired a total of 18 flats in 70 miles. We were on the road 24 hours, and it was the low point of our whole trip. But there was an amusing inclient that made it worth while.

At duss, we stopped to patch a tire at a tiny place known as Tien Shal Chuan (Fresh Water Spring). In the days of the great caravabait was an overnight stopping place. Now it had fallen into disuse. A very old Chinese farmer and his wife were the sole inhabitants. Some of the passengers asked them for food.

The old couple protested that they had no food other than their own meager supper. Must of the travelers accepted the situation but one well-dressed, sly young bun drew the ld former aside

"Old one," I heard him say, 'you are a fool. I have money, and you need it. You

can have your own supper and stid profit. While wone wife talks with these strangers, on take her supper and bring it here to me in the dark no one will see. I will pay you well."

The old fature prolested, but as the stranger kept increasing the price, he finally agreed. "But you must wait a few minutes," he told the purchaser, "This must be none outh coation."

the as, I was a most to the kitchen, wondern a whether I should wattr his wafe. I didn't need to worty. She sat at the tuble with another of our travelets, both reashing large bowls of noodles and greet

Hurry," she said to him, "finish the Lowl and leave, It my has tund finds I have sold his supper, he will sarely heat me. I too shall leave and then return and cry that some one has stolen our ment;"

When we finally reached Ansi we rested for a day and then

substitute to be a postal track. These whates are the aristocracy of the road in western China, and we were pleasantly surmosed that they can on schedul.

We node the long length of Kansu Frowlers on a succession of them, through the configuration of them, through Kanches and Kanahew (Changveh). Stantan, and Wuwei. We sat high in the rear of the tracks sagring our space and out food with peace and latments, soldiers and businessmen, young and all the twodles and clicken in friendly ions

Surklenly we were rolling along a smooth highway beside the turb lest Yellow River, passing the giant water where which turn 100 feel Into the are. Through a thick wall and a great gate: we were in Lunchow

From here we could get a plane back to



The Youthful Dr. ii Lanu Smiles from 115 Throng in Linear

To but the fundament days and a second of the fundamental forms of the fundamental forms and the fundamental funda

Shanghar, back to notestars and purping water and harrying crowds. Belief us by five weeks of trivel over 1,000 miles of the Gabi. The co.d of early mornings, the Caves of the Theusand Budchas, and the dusty solutile of the Great Silk Road.

In hour later, fresh from a tab both, we set in the lobby of the Northwest House. Lanchow's leading hotel, Jean picked a copy of the Natu wat Grossaniic Masaine from a pile lying on a table. She opened it and found an article about a cause trip down the l'otomac. Her eyes lighted up,

"Just think," she said, "in a month we'll in back hone, and maybe we can to a some interesting trips like this one!"

* See *E providing on the Gold Desert by Rome of the North was National Gold Desert by Rome 3 and 3 an

New National Geographic Map Shows Changes in Asia and Europe

SINCE World War II. Russia has expanded its borders by 264,400 square miles and commanhed bine neighboring countries. In this period, Western nations have granted freedom to 13 Asiatic Limbs ontaining me-fourth of the burnan race.

Recording the tremendous transformation, the National Geographic Society's new map of Asia and Adiacent Areas presents up-to-date geographical background for the prob-

lems facing the world in Entasia.

Adjacent Areas" include Europe, a peniasula of Mother Asia. The mapped area contains 30 percent of the land surface of the globe and is home to 80 percent of the earth's opte.

From the British Isles to Bering Sea and from the Arctic to Australia the changing Old World is spread before The Society's members in the light of the latest data. All members receive the 10-color map as a timely supplement to their March, 1951, National Geographic March March 1951, National Geographic March from hig lithographic preses to meet the peeds of the membership and agencies of the Government and United Nations.*

The 37-by 29 inch sheet lears 7,646 place names, many of them new as a result of portentous postwar changes.

Russia Swallows Equivalent of H. States

Soviet Russia, stretching from Bering to Baris, bulks larger than ever after swallowing to cause of World War II \$1,000 square miles in Asia and 182,500 square miles of European territory. These gains by the world's largest country are more than equal to all of New Fugland, New York, Pennsylvanus, Maryland, Vincinia, and North Carol rait

The Union of Soviet Socialist Reputats, 'Russia' for short to most Apericans, Is now 2.87 times the size of the continental United States and holds an estimated 53 000,000 more people than our own 152,360,000.

Moscow has extended its sway far beyond even these greatly expanded by thereing neighbor nations into Communist satellites—Poland, Czechoslovakia, Hungary, Romania, Bulgaria, Allamia, Mongolian Republic, and then imprensely populous China. Communist Yugoslavia's refusal to be a Rassian pupper was heavily outwenthed by the communicing of China, wante swarning population totals 452,548,000, almost three times the number of people in the Utated States

Aggressive communism, backed by the grim-

threat of Russia's undemobilized acmics, has caused turnoit in Korea, Induction, even the Shangrisla land of Taset, and compelled the United States, Great Britain, and other democracies of the West to begin seludiding the forces they so quickly distunded after World War II. Tragic events in Korea, once remote have reached into every American bonne.

Ramparts We Watch

At the outer edges of the map rise the bastions of the West. With their east remoted defenses in divided Germany and their small but at wing forces united under General of the Army Dwight D. Elsenhower, ten nations

We first a long stand together and with the United States and Canada, linked by the North Atlantic Treaty and a common beritage of free institutions. On the other flank are United Nations for, as seeking to prevent the stread of Communist complest in Asia. Occupied Japan, Okinawa, Formost, and the Philippines form a chain protecting the Parific.

Once-strong Japan is prostrate militarily. Its \$2,000,000 people are dependent upon the West for purfection, at least until a peace treaty can be written. Its present constitution renounces war and preparation for war.

Karslans now are close to the Japanese islands, in the Karls and southern Sukhalin Island, which Stain won by agreement at Yalia as part of his price for the eleventulant Soviet attack on mainland troops of tottering Japan.

Three hundred and twenty miles south of Japan, Okapawa serves the United States as an

insinkable aircraft carrier.

Within lighter tabge to the southwest lies the unsuppy island of Formora. Taiwan, asthe Chinese call It. It forms the refuge of the Nationalist leader Chiang Kai-shek and his armies driven from the mainland.

in Communist hands the fertile island of palms, padd es, and mosty mountains could form a wedge between American bases in Okmawa and the Objection

"Members that obtain additional copies of the new map of Asia and Adjustent Area. (and of all standard maps published by The Society) by writing to the National Cooperathic Security, Washington to D. C. Friers, in Lin ted States and Possessons, 5th each on paper. \$1 on lan in Index 13c. Outside Linited States and Possessons. The un paper; \$1.25 on intent; light, the All remittances payable in U.S. turds. Postuce.

The Society's New Map of Europe and the Near Fast The Ather D. Lotazzita, National Geo-

HARTE MERAZINE JUDE 14-9.

that a w independent island republic. Americans and Paiplace remember that form ex formed the springaged for World War II myasico of the islands by Japan,"

Half-billion Asiaties Given Independence by Western Powers

Asia is now a continent governed almost entirely by Asiatics or by European-Asiatic Russia. In contrast to Russia's extension of power, the United Kingdom, Netherlands, United States, and France have given independerup to the resuggest peoples of Asia over an area also at equal to the continental United States. Thirteen States, with a combined Population of more than half a hillion people, now control their own welfare and destury, under their own constitutions, in territories formerly control ed by Western nations.

Six of these States have emerged from territory that belonged to Great Britain or was utitler British mandate-India, Pakistan, Ceylot, Burma, Israel, and Jordan, The first three have elected to remain members of the British Commonwealth, but because they are close to one mother they are given distinctive c during on the map.

One a territory of the United States, the in dependent Republic of the Philippines was Jenn July 4, 1946, with full American support and approval

Syria and Lehanon, once under French mandate, became independent and sovereign countries in April, 1946, with complete withdrawal of foreign troops.

The 14-month-old Republic of Indonesia, a full-fledged State, comprises all the territory of the former Netherlands Inches except western New Guinea and mear-by islands.

The word "French" has been dropped from the name of hotochina, which has been reorganized within the French Union into an association of the three independent States of Viet Nam, Laos and Cambodia. French administrators are being replaced by local talent. The States have been recognized by the United States and other governments and bring to 13 the oursber given independence by Western countries.

On the southern and of the Malay Peninsula, the sample designation Majaya replaces the names of the old Straits bert ements, formerly a British crown colony, and the Malay Studes. A Bruish high commissioner in Kuala Lumpur, the capital, supervises admanistration of the three-year-old Federation of Malaya, the great world port of Singapore conce a part of the Straits Settlements but now a separate British calony), and North Bornen, Sarawadt, and brune.

Revolt in Induction thes down numbers of French troops. The French have been hardpressed by strong Communist forces trained

acces suggetted in neighboring China

in southern (I'm a the French Tripolog was havled down in August, 1945, from strutegic Fort Bayard, north of Hainan Island, when France voluntarily returned Kwangelmoon, to China, then under Chiang Kaj-shek. France hat currentled this fragment of China since 1898 under a 99-year lease. Chinese Styling replaces burt Bayard.

Cambbridgere, a former French possession about 25 miles north of Calcutta, was restored by plebiscite to India in May, 1950, after 202 years of French rule. Despite Indian pressure, France and Portugal have main tained their other possessions shown on the east and west coasts of the Indian peninsula.

l'alestine is gone from the map. The former british mandated area was divided among the new nation of Israel and its neighbors, Egypt and Jordan. The partition is shown according to the atmistice lines of January, 1950, which are subject to further negotiation. The Holy City of Jerusalem has been split. The walled city is in Jordan's hands; the western suburbs are now the capital of Jamel.

Cease-fire Line in Coveted Kashmir

With India and Paketan both comming the State of Jamus, and Kashmir, that lofty, conf. Himalayan prize is shown on the map as a noman's land, with a cense-fire line established by a United Valiens commission.

Flunsed by Nepal and Bhutan in the buffer zane between India and Tibet, the autonomous State of Sikkim has been recognized by India. Formerly part of India, it locks to her for defense, diplomacy, and communications. Strategically Important, the tiny State holds lindig's ma'n trade route to T.bet, now insuded by Change Communists,

What used to be called Outer Mongolia is now a Russian satellite, the Mongolian People's Republic China relinquished its claim in 1940.

Missing from the map is the former nomiand y undependent State of Tanna Tuva, methwest of the Mangolian People's Repubhe. During its short checkered career it was claimed and occupied by Lath China and Russia. La October, 1944, the littleknown State was formally incorporated, Russtan style, into the Soviet Union.

In China, he map shows names of pray-

Fur recent articles on Japans, horrows, known and other key spets in Asia, we "Mariowat Geographic Macazene Canadatica Indea, 1599-1950 "...

inces, but their boundaries are omitted because of the constant charges being in de by the Communist Government.

Among the many place-name changes are sweeping revisions of the names in Korea, Mucharia, and Formosa, formerly ruled by Japan. Japanese forms have been changed to the native spellings. In the new nation of Indonesia, native names replace the long-lamitar designations left by the Butch.

On our new map Chosen becomes Korea; Tuiwan is hormosa; husan is now Pusan; Heljo is Pyongyang, capital of North Korea, Itatavia and Bangkok are Djakarta and Krung Thep, and Levant States are Syria and

Labam in.

Joseph Stalin's name peppers the map of Russia, with ten places named for the Soviet Litator. Satellite Bulgaria has added its flattery by changing the name of the Black Sepport of Varua to Stalia, a far cry from its ancient Greek name, Odessus, which honored Homer's towing hero.

Iron Curtain secrecy, prevailing over three fubiths of Asia, hides even nonmilitary details. It is the may one of row Roll of ratio it tust depend upon limited information.

One of Russia's most important construction projects is known to be the second trans-Siberian radway, the South Siterian Magistral trunk line), planned to run from the Volga at Kullsyshev to the Pacific at the new part

of Sovetskaya Garan,

Dutted and solid lines show planned and completed sections of this long rail route cross Siberia, calculated to end Rassian dependence upon one vital radioad to reinforce and supply its troops in the Far East. One section, completed during World War II, connects the great new steeles its of Magnitogotsk, in the Urals, with Akmolitisk and the Karaganda coal fields.

In China long-risrupted tail services are being re-established under the Communist regime. The Pe ping-Rankow Rullroad, for example, has been reopened after 13 years. Now at it passible to travel by train from Cont in or Hong Kong to Moscow—in about

fam Bendah,

Europe Gets Oil from Asia

ked lines show roads, still the only means of land travel in wild interior parts of Asia. Some, such as the old silk routes of China have histories that reach back into the vague dawn of harmon history.

Information twaked into the map ranges from ancient ruins to autports and oil fichis, from the Great Wall of Uhing to such modern engineering achievements as the 1,068-mile-

long Papline across Arabia. This Americanbuilt pipe line has started delivering 315,000 barrels of oil a day at a brand new terminal in the old Bablical city of Sidon.

In Netherlands New Gainea the map shows the new Klamono oil field, with a short pipe line to Sorong short important in justical (evelopment in that remote part of the world.

Much of the Old World's oil comes from Iran and Iraq, close to the Soviet Union. Iran produces (\$1,000 barrels in day and Iraq 126 700. If this output was captured by the Communists, it would more than double the Soviet supply and would deny Western Europe its main source of preclaim oil. About two-thirds of the million barrels daily used by the Marshall Han countries come from the Near East, the other third from South America.

In all, the Western Hemisphere yields 8,000,000 barrels of eal a day, against 2,900,000 for the Eastern Hemisphere. The United States alone each day produces 6,000,000 barrels, more than eight times the Soviet productions.

Largest Continent Mapped on Special Projection

In many ways, however, Asla is the continent of superlatives. By far the largest and most populous, it contains the work is highest mountain, 29,00.2-foot Mount Everest; the greatest known ocean depth, the new 34,440-toot Cape Johnson Deep, off Mindanao, in the Particle of the Particle

Fo map this instense Old Mark area, The Safety's cartographers have used a projection never before employed, to their knowh a for mapping Asia. Called the Two Politequidistant Projection, at shows the continent's long and important shore-line area with maximum accuracy and minimizes the Laboration and scale variation that must occur when such a large part of the round earth is shown on a flat short

A top-of-the-world most shows how coses are Asia and North America. By the scale, true Astances can be measured to the Russian industrial center of Sverdiovsk.

Asia and Adjacent Areas is fifth in the National Geographic Society's postwar series of centinent maps. It follows Australia March, 1948; For per and the Near East I me, 1949. Africa and the Arabian Peninsula, March, 1950; and South America, October, 1950. This continent series will be continued with a new map of North America, planned for the near future.

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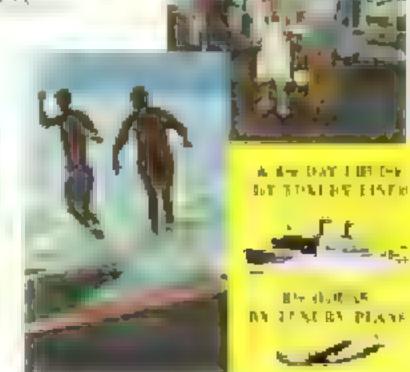
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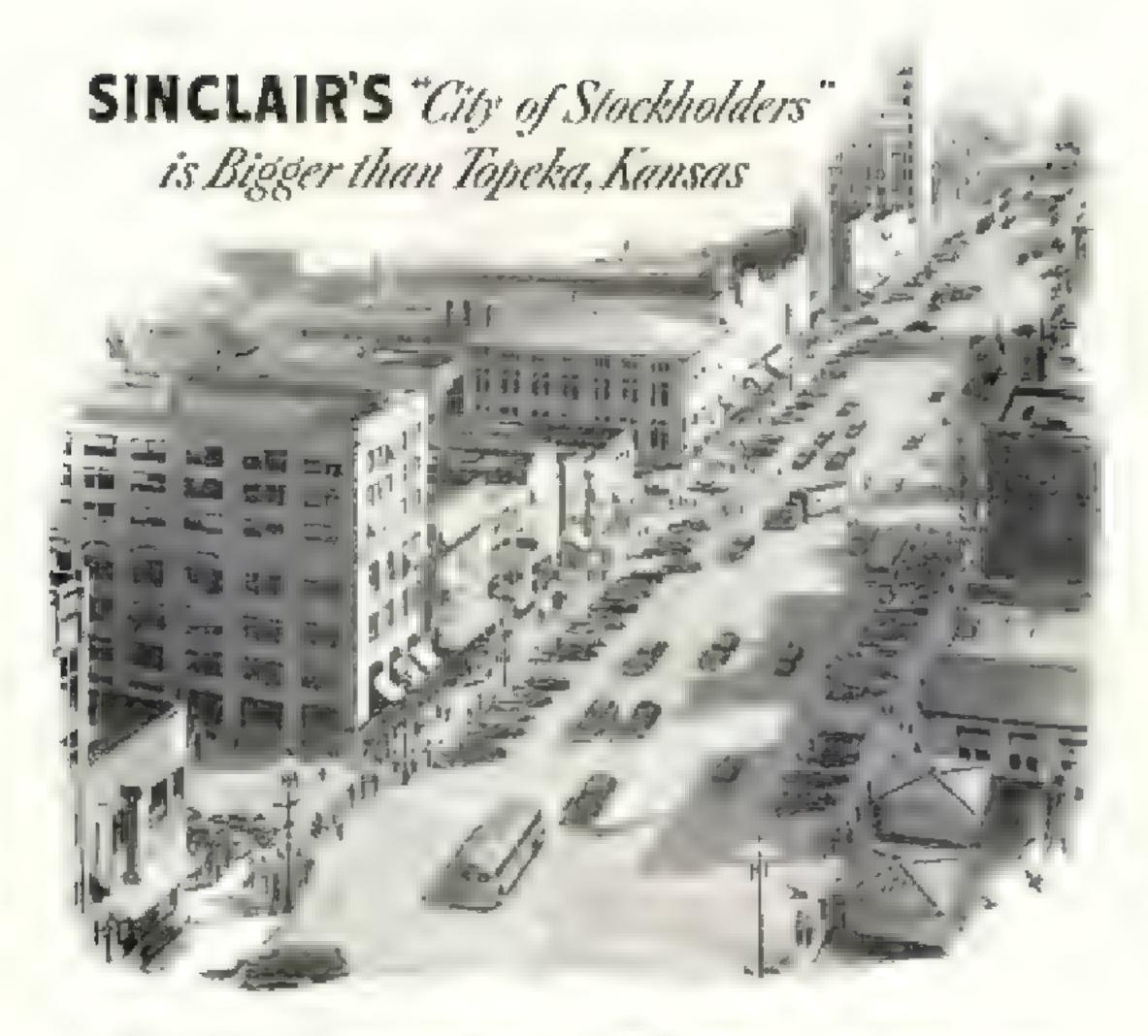
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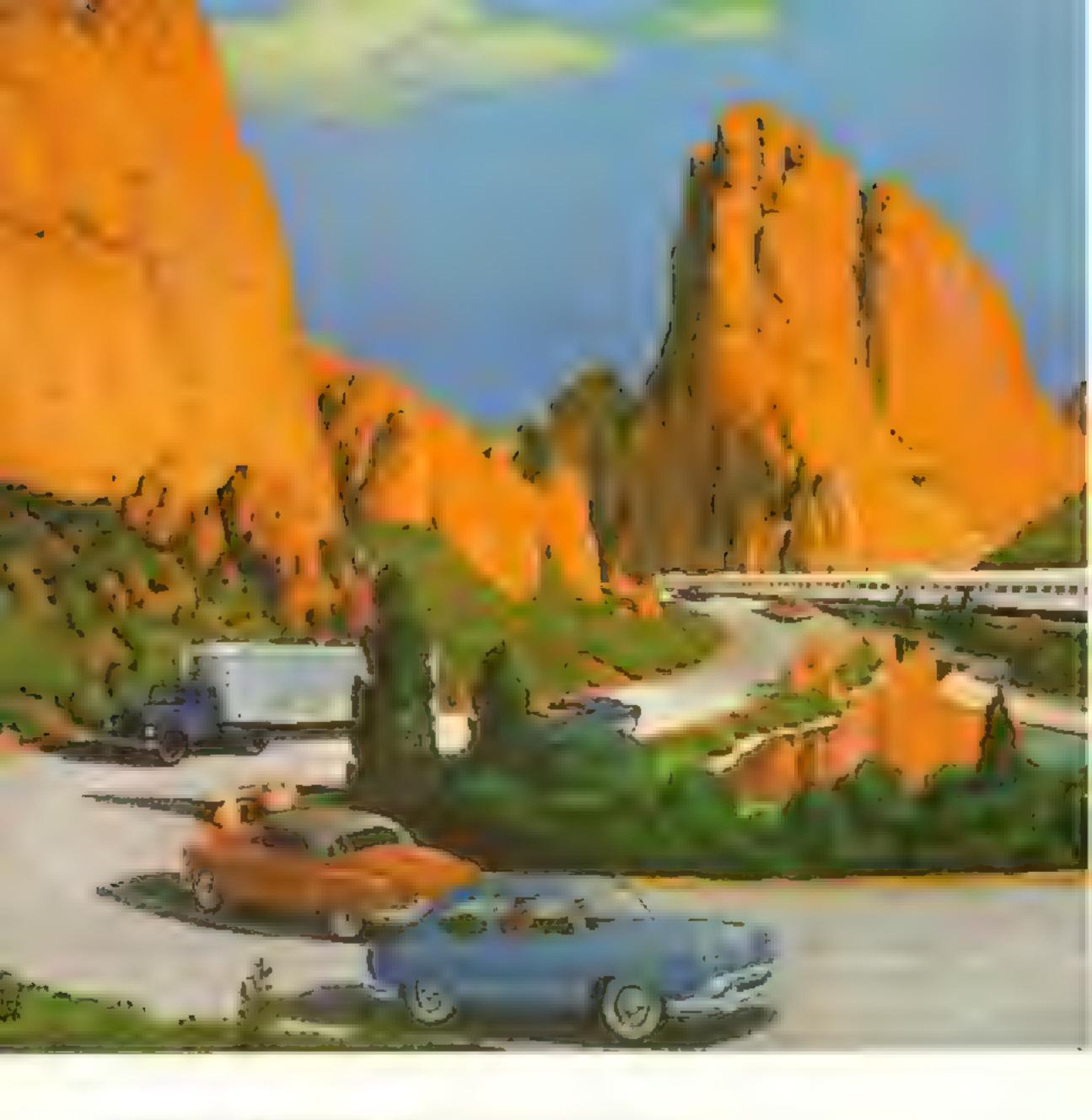
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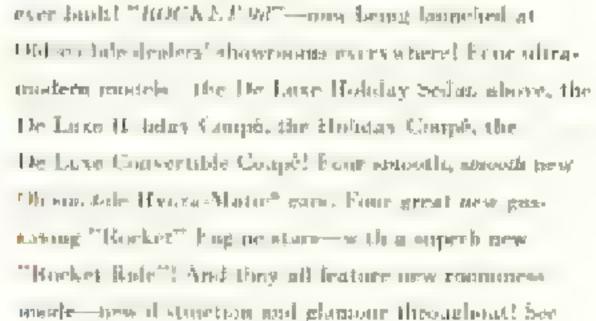
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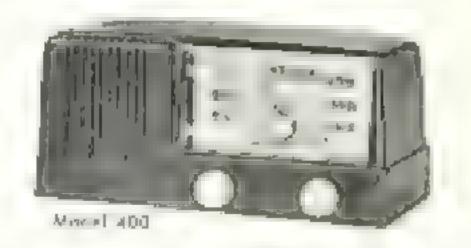


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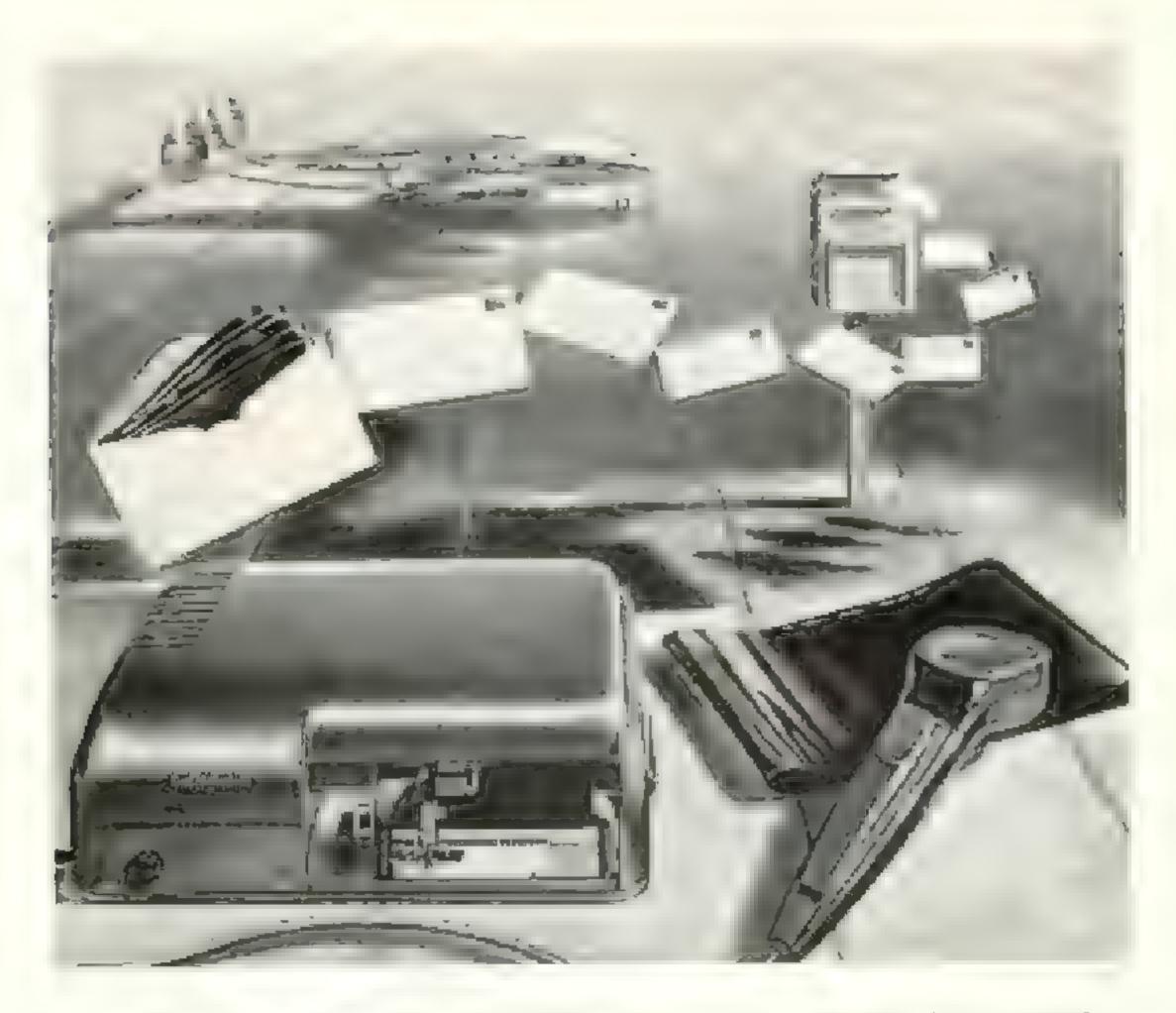


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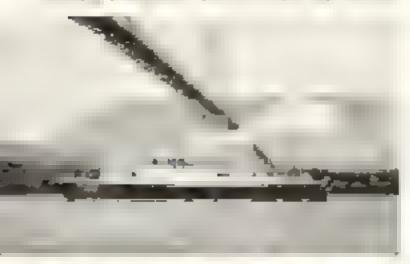
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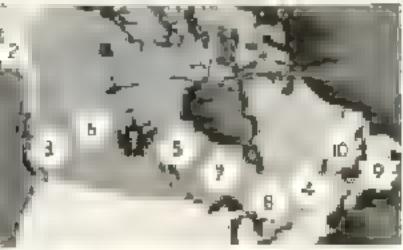
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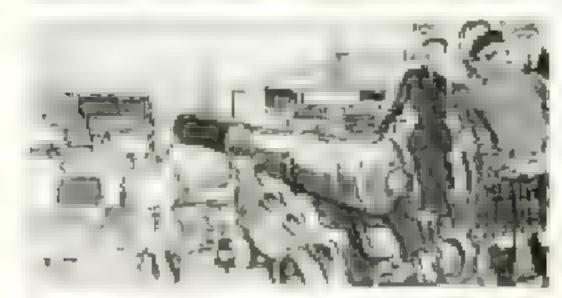
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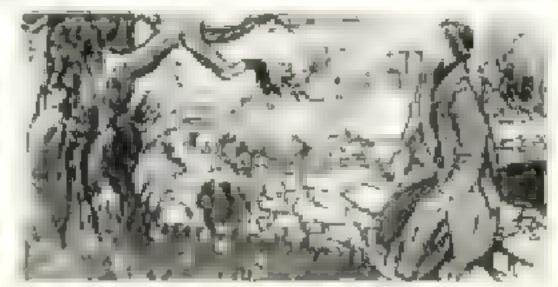
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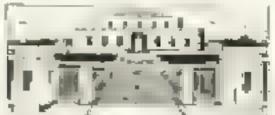
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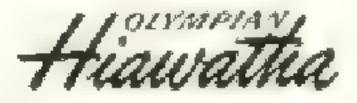


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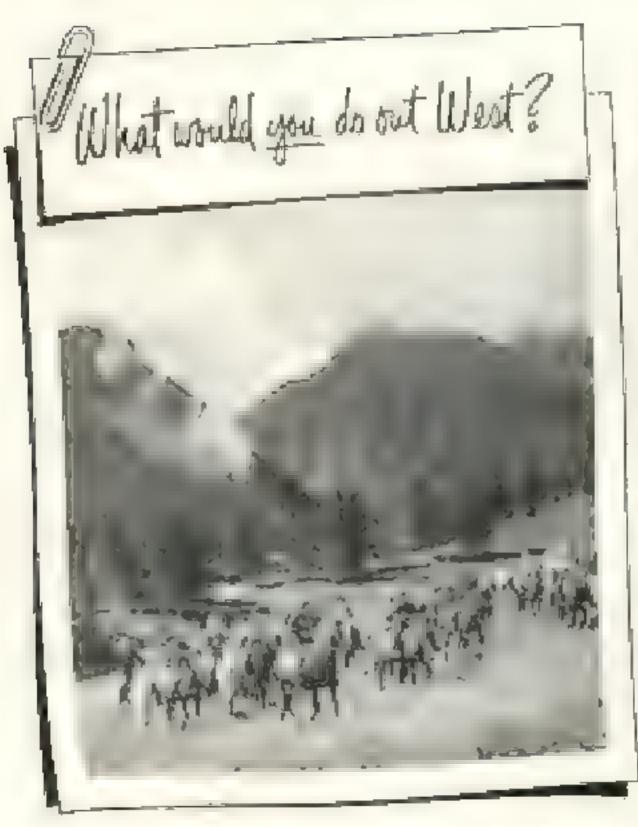
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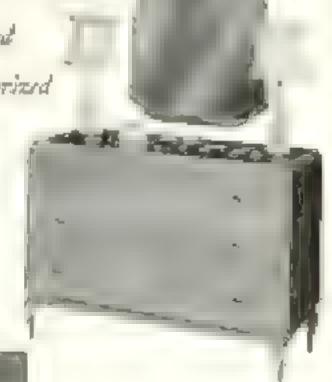
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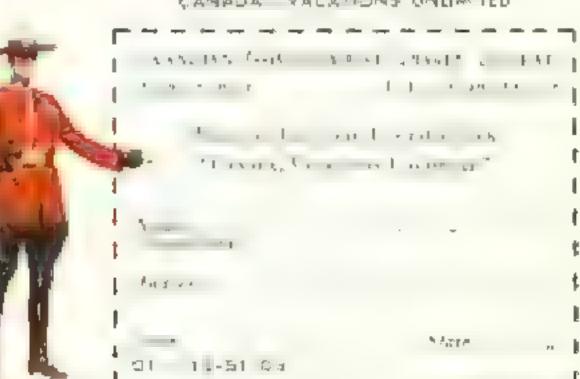
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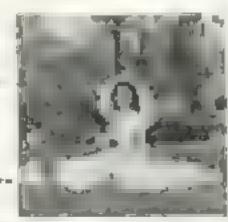


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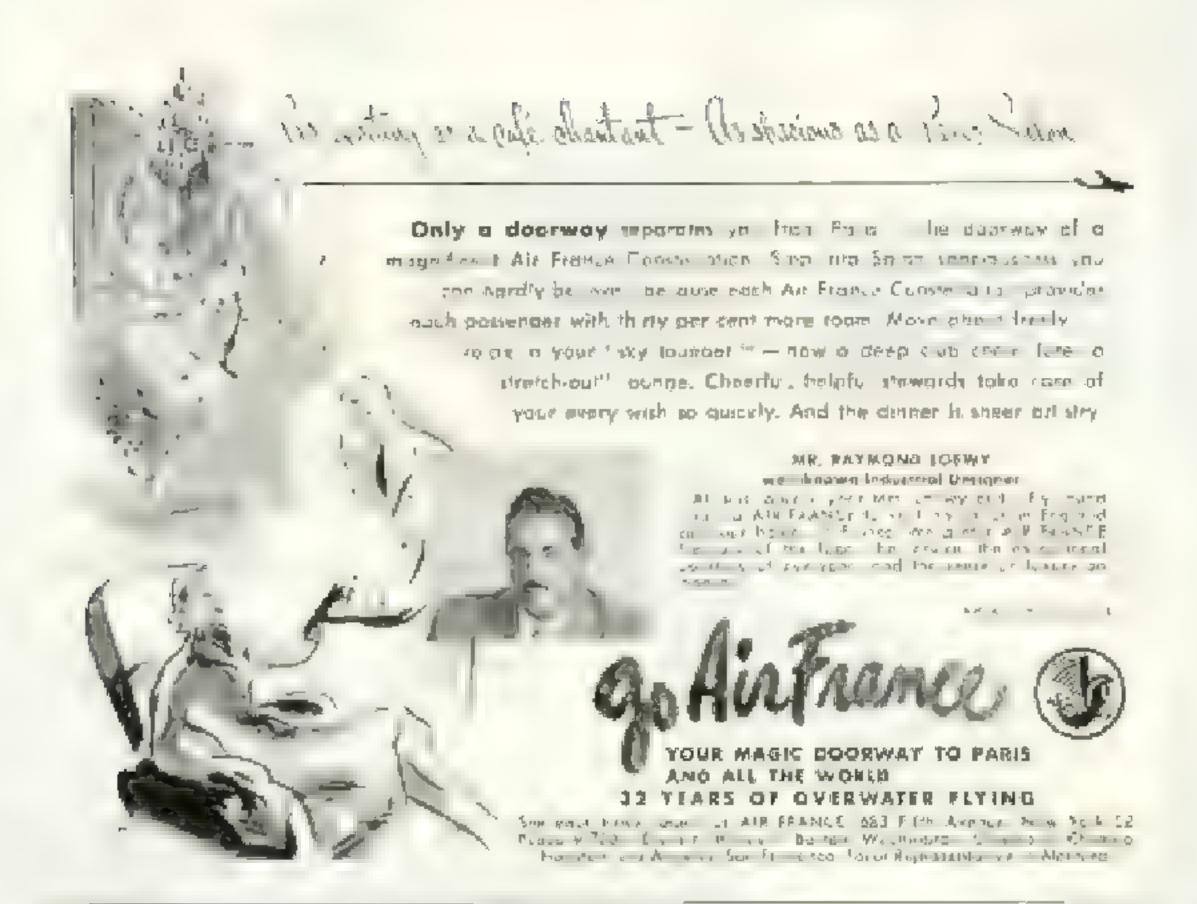


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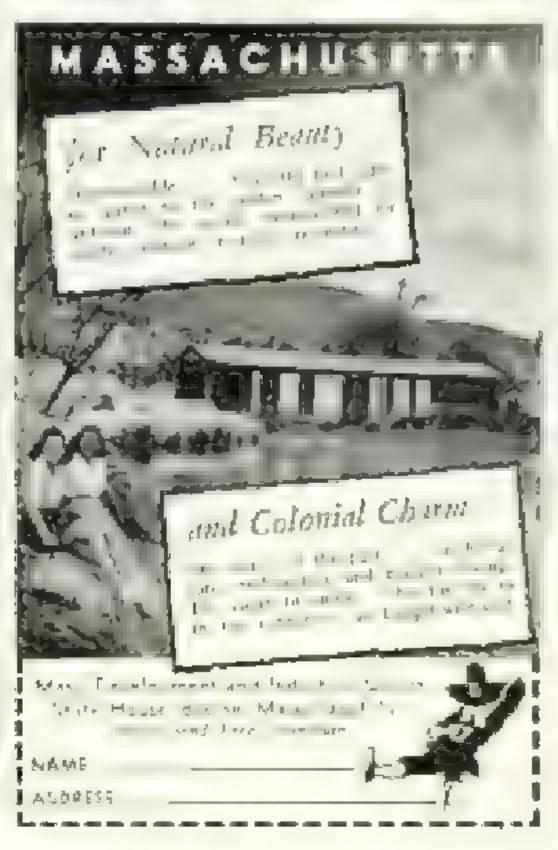
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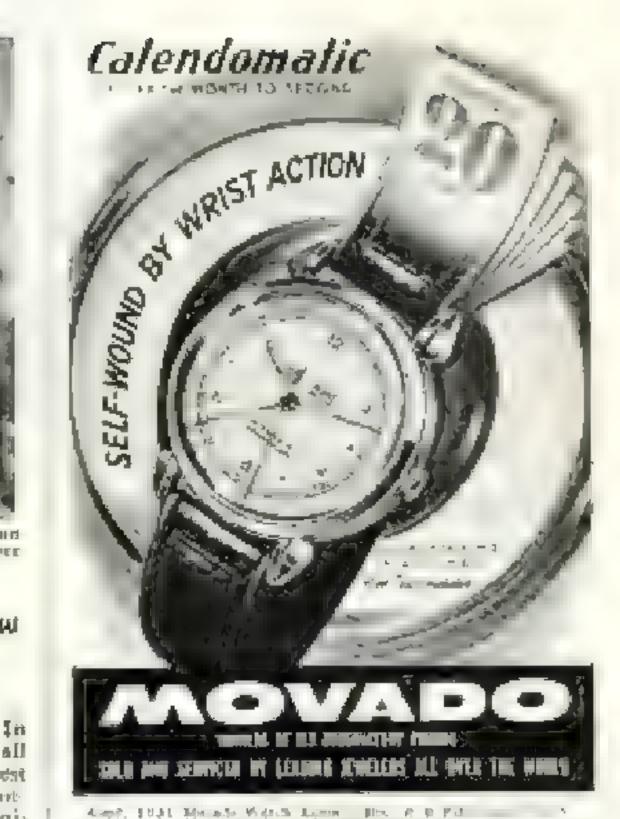
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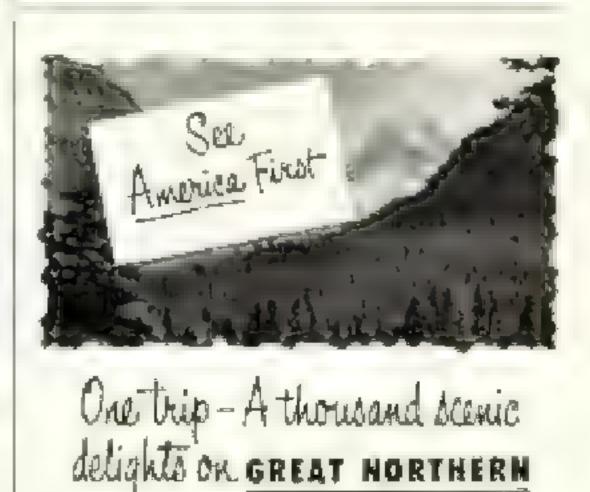
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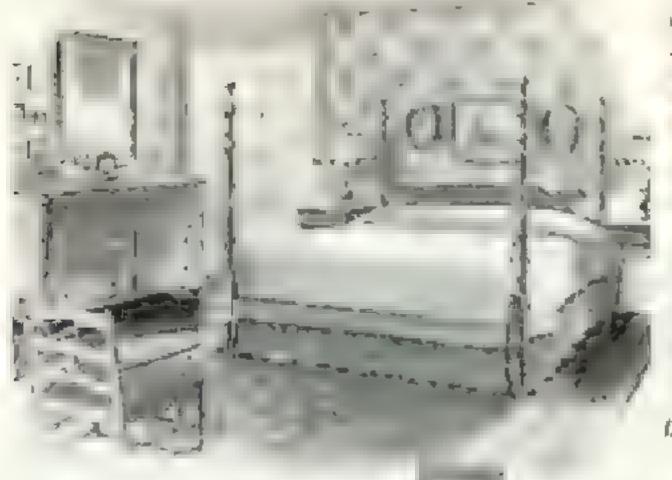
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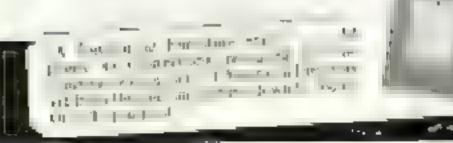
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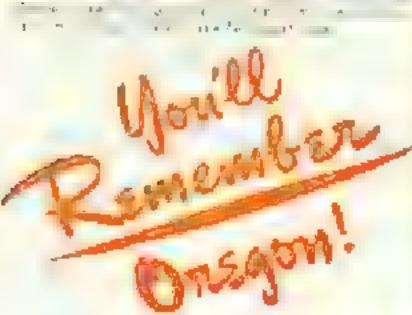
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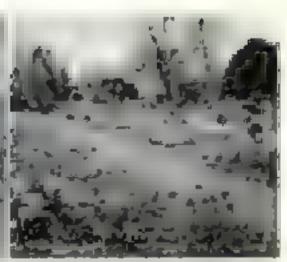
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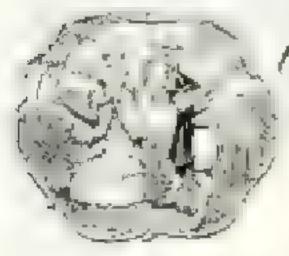
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Eat enough tooth-building foods

A diet rich in vitamens and numerals is one of the most important factors in building and maintaining and id teeth at a larges.

These elements are supplied by milk, meat, eggs, vegetables and fracts, bread and acreals, and list fiver only. It and that, vigor not chewing of tough, camp touch helps keep teeth and gums healthy.



Help protect the gums

Com diseases a fact about hit per cent of the accurpopulation. Frequently, such conditions are brought on by deposits of tartar which irritate the guins, and the affection may afread to other parts of the body

By having the central treat infected gums early, a be usually possible to care them and to prevent the openal of infection.



Guard against teen-age decay

It is entimated that 95 dut of every 100 high school children have some touth decay. During teen years, teeth seem to be expectally smoothible to cavities and cating too many awards may contribute further to this condition.

Proper duet and regular cental care during these years may help to assure good dental and physical health throughout late.



Keep the teeth clean

The solds which cutter decay are tormed in the mouth soon after eating. Thus, to get the full benefit of the tooth littleth, it should be used when needs and especially before receiving.

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Visit the dentist regularly

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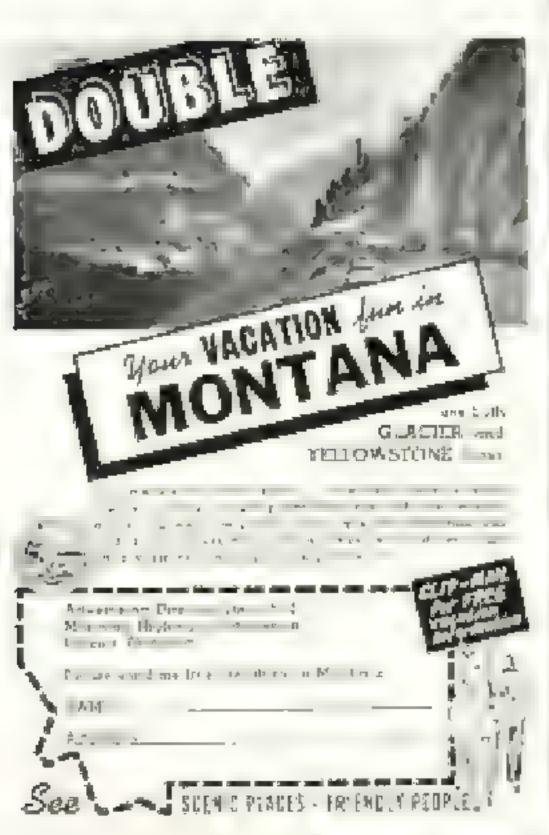
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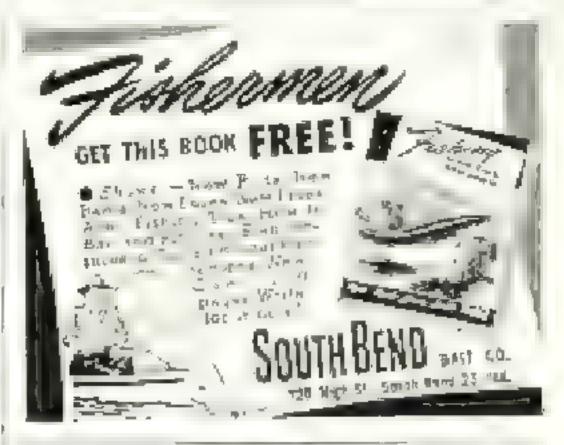
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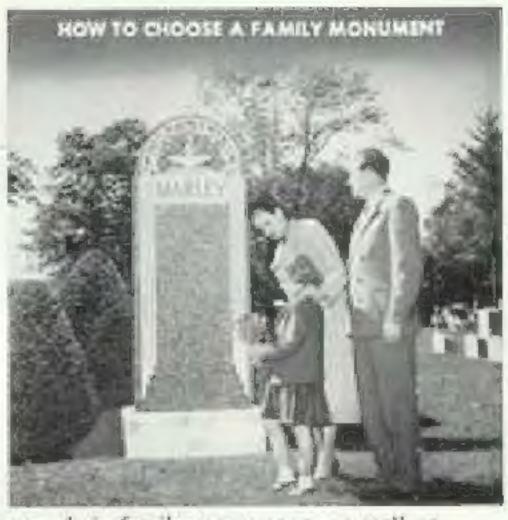
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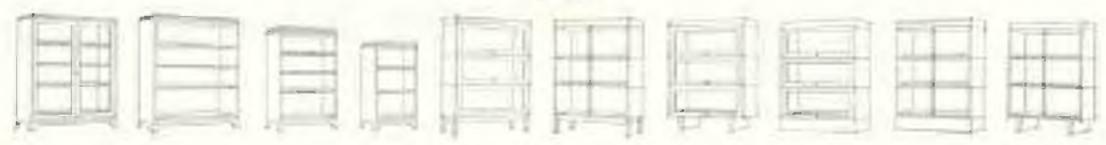


Economy riple sectional, there sizes of book sections, receding doors. Handsome value — moderate price.



Ardmore solid and customstyle, open front, in the filts furniture tradition. I such shelf adjustment.







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We try to run it for you at we would like you to run it for us if we were in your shoes.

We'd like you to give us good, courteous telephone service at a fair price. We'd like you to keep improving it and giving us more of it.

We'd like you to run the business so that it would be a good place for people to work and a good place for people to invest their money. We'd like it to be a progressive and successful business.

We would like you to run the busisness so that it would be a good and helpful citizen in everything that concerns the community and the nation, especially in times of national defense,

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it for us. And that's the way we're
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THE MOST PIERCING LIGHT EVER CREATED, flashing out a beam of over three billion candlepower to penetrate fog at airports . . . that's the result of using the rare gas, krypton, with electricity.

Krypton is not burned, as in old style gas lights, Instead, scaled in a glass-like tube no bigger than a pencil, it blazes with dazzling brilliance when high voltage electricity is passed through it.

A truly rare gas is krypton. It occurs in the air in only one part per million. Wresting commercial quantities of so clusive an element from the atmosphere is an achievement of science and one of the jobs of Union Carbide, Krypton is now used to get 25% more light from fluorescent bulbs with the same amount of current.

Union Carbide is also forcing the air to yield the even raret gas, xenon, in quantities that will foster research for important industrial uses.

For over 60 years, the people of Union Carbide have had a hand in creating and improving the sources of light. Carbons for are lights, calcium earbide for acctylene lights, and the argon gas that gives incandescent lights their brilliancy and economy are products of UCC.

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